

ANNUAL REPORT
OF THE
COMMISSIONER OF MENTAL DISEASES
MASSACHUSETTS
1920



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The Commonwealth of Massachusetts

ANNUAL REPORT

OF THE

COMMISSIONER OF MENTAL DISEASES

FOR THE

YEAR ENDING NOVEMBER 30, 1920



BOSTON

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APPROVED BY THE
SUPERVISOR OF ADMINISTRATION.

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MEMBERS OF THE MASSACHUSETTS DEPARTMENT OF
MENTAL DISEASES.

Nov. 30, 1920.

GEORGE M. KLINE, M.D., <i>Commissioner</i>	BEVERLY.
JOHN B. TIVNAN, <i>Associate Commissioner</i>	SALEM.
HENRY M. POLLOCK, M.D., <i>Associate Commissioner</i>	BOSTON.
CHAS. G. DEWEY, M.D., <i>Associate Commissioner</i>	BOSTON.
ELMER A. STEVENS, <i>Associate Commissioner</i>	SOMERVILLE.

OFFICERS.

LOWELL F. WENTWORTH, M.D., <i>Assistant Commissioner.</i>	WILLIAM A. BRYAN, M.D., <i>Assistant to Commissioner.</i>
--	--

NELLIE F. BALL, <i>Statistician.</i>	ALICE M. BROWN, <i>Senior Stenographer.</i>
CLARA L. FITCH, <i>Senior Clerk.</i>	ELIZABETH F. DINSMORE, <i>Clerk.</i>
M. LOUISE SMALL, <i>Clerk.</i>	SARA J. GREENE, <i>Clerk.</i>
EMILY L. PRIDE, <i>Clerk.</i>	MARIE C. FACEY, <i>Clerk.</i>
LILLIAN D. RIDER, <i>Stenographer.</i>	

WARREN A. MERRILL, *Business Agent.*

REBECCA J. GREENE, <i>Senior Bookkeeper.</i>	CORA E. NORRIS, <i>Senior Clerk.</i>
EDITH A. STEVENS, <i>Clerk.</i>	JOHN I. ROBINSON, <i>Bookkeeper.</i>
GRACE D. COOK, <i>Clerk.</i>	IDA M. EASTERBROOKS, <i>Stenographer.</i>

ELWIN H. FORRISTALL, *Investigator of Farm Problems.*

HAROLD K. WILDER, *Chemist.*

FRANCIS B. GARDNER, <i>Chief Examiner, Legal Settlement and Support Claims.</i>
PAUL A. GREEN, <i>Examiner, Legal Settlement and Support Claims.</i>
FREDERICK R. HOUGHTON, <i>Examiner, Legal Settlement and Support Claims.</i>
MAUDE F. FREETHY, <i>Examiner, Legal Settlement and Support Claims.</i>
MARY L. BALLOU, <i>Senior Clerk.</i> MARY P. PEDRAZZI, <i>Clerk.</i>

HANNAH CURTIS, *Director of Social Service.*

MABEL G. GRAGG, *Social Worker, Department of Family Care.*

Transportation Attendants.

FRED A. HEWEY.	CLAIRE T. MCINNERNEY.
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HYMAN W. BARRON, *Clerk.*

The Commonwealth of Massachusetts

STATE HOUSE, BOSTON, July 5, 1921.

To His Excellency the Governor and the Honorable Council.

The undersigned, Commissioner of the Massachusetts Department of Mental Diseases, respectfully submits the first annual report of the Department for the year ending Nov. 30, 1920. The matters, however, relating to general statistics cover the year ending September 30.

GEORGE M. KLINE,
Commissioner.

JOHN B. TIVNAN,
HENRY M. POLLOCK,
CHAS. G. DEWEY,
ELMER A. STEVENS,
Associate Commissioners.

The Commonwealth of Massachusetts

REPORT OF THE MASSACHUSETTS DEPARTMENT OF MENTAL DISEASES.

DUTIES OF THE DEPARTMENT.

In accordance with chapter 350 of the General Acts of 1919, which provided for the reorganization of State departments, the Massachusetts Commission on Mental Diseases became the Department of Mental Diseases on Dec. 1, 1919. This legislation does not change the status of the Department. Under the above act the Norfolk State Hospital, at present leased to the United States government, and formerly under the State Board of Charity, comes under the supervision of this Department.

The statutes relative to the duties and powers of the Department of Mental Diseases are to be found in chapters 19 and 123, General Laws.

The Department has general supervision of all public and private institutions for the insane, feeble-minded and epileptic persons, etc., and it has the right of investigation and recommendation as to any matter relating to the classes under care. Each State institution has, however, its own board of trustees appointed by the Governor and Council.

The direct powers of the Department concern the interrelations of institutions and matters which are common to them all, such as the distribution and transfer of patients, deportations of patients to other States and countries, claims to support as State charges in institutions, etc.

The expenditure of money under special appropriations for new buildings and unusual repairs is under the control of the Department, which is required to prepare plans for new buildings and to select land to be taken for the purpose of any new

or existing institutions. The Department also analyzes all requests for maintenance appropriations.

Mr. John B. Tivnan of Salem was reappointed as Associate Commissioner of the Department in August, 1920.

DEATH OF DR. E. E. SOUTHARD.

Dr. E. E. Southard, Director of the Massachusetts State Psychiatric Institute, was identified with the Massachusetts State Hospital Service from May, 1906, to Feb. 8, 1920, nearly fourteen years. His appointment as pathologist to the State Board of Insanity in 1909 required him to supervise the hospital laboratories, to which visits were made to stimulate scientific work. During this period he was interested in the plans for the Psychopathic Department of the Boston State Hospital, of which he was appointed director in 1912. His seven years' work in the Psychopathic Hospital is well known, and as director of the State Psychiatric Institute, to which position he was appointed in 1919, he would have continued his study of psychiatric problems.

He died in New York City on Feb. 8, 1920, of pneumonia, after a week of medical addresses. The publication committee of the Department, in token of the esteem in which Dr. Southard was held, published a memorial bulletin in his honor.

The following resolutions were adopted by the Department:—

Whereas, The Commonwealth has lost a faithful servant through the death of Dr. Elmer Ernest Southard, Director of the Psychiatric Institute, on Feb. 8, 1920, we, the members of the Department of Mental Diseases, desire to record our great sorrow at his loss, and our high appreciation of his valuable service to the Department, to the institutions under its supervision and to the Commonwealth. Dr. Southard entered the service of the State in 1906, at the Danvers State Hospital, where his work attracted attention, and he was made pathologist to the State Board of Insanity in 1909. With the opening of the Psychopathic Department of the Boston State Hospital in 1912, Dr. Southard was chosen as its director, while still acting as pathologist to the Board. He continued at the Psychopathic Department until appointed as director of the Massachusetts State Psychiatric Institute in 1919, where his work of usefulness covered the entire State. His brilliancy of mind, far-sightedness, unlimited capacity for work, and kindly disposition made him invaluable to the Commonwealth he so ably served. His associates will miss him.

Those interested in scientific research for the mentally sick and feeble-minded well know how great a debt of gratitude the Commonwealth owes to Dr. Southard.

As a recognition of his service, the members of the Department of Mental Diseases desire and order that this memorandum be spread upon the records and a copy thereof sent to Mrs. Southard.

ACTIVITIES OF THE DEPARTMENT.

APPOINTMENTS.

In accordance with chapter 537 of the Acts of 1920 the Psychopathic Department of the Boston State Hospital will become a separate institution with its own board of trustees, and will be known as the Boston Psychopathic Hospital.

Dr. C. Macfie Campbell has been appointed director. Dr. Campbell was graduated from the University of Edinburgh, Scotland, in 1902. He was formerly associated with the State Hospital System in New York, and at the time of his appointment to the Psychopathic Hospital was Professor of Psychiatry at the Johns Hopkins Hospital, Baltimore, Md.

Dr. William A. Bryan was appointed assistant to the Commissioner in May, 1920. Dr. Bryan is a graduate of the George Washington Medical School, Washington, D. C. He was assistant physician at the Cherokee State Hospital in Iowa for five years. From November, 1916, to April, 1917, he was senior assistant physician at the Psychopathic Department of the Boston State Hospital, and from November, 1917, to May, 1920, served as assistant superintendent of the Danvers State Hospital, which position he resigned to take up his work in this Department.

A leave of absence was granted to Dr. J. Raeder, assistant pathologist of the Department, for the period of one year, beginning Oct. 1, 1920.

Dr. M. M. Canavan, assistant pathologist of the Department, has been transferred to the position of chief of the neuropathological laboratory at the Boston Psychopathic Hospital, to become effective Dec. 1, 1920.

Dr. Harry C. Solomon, senior assistant physician at the Psychiatric Institute under the Department, was transferred to the position of chief therapeutic research officer at the Boston Psychopathic Hospital, to become effective Dec. 1, 1920.

CONSTRUCTION OF PAY ROLL.

The following regulations governing payments of salaries, wages, vacations and holidays, hours of labor of officers and employees were adopted for the institutions under the Department:—

The amount of yearly compensation shall be used exclusively as a basis of uniform procedure in the computation and construction of the pay roll.

The standard form of pay roll as prescribed by the Auditor's office for weekly payments shall be used exclusively.

Both the annual and daily rates shall be shown on the pay roll. The annual rate can be shown in the column where the name of the employee is written.

Officers designated in the statute, — superintendent, physician group, treasurer, — together with the positions of steward, chief engineer and head farmer, are to be placed on the pay roll on the monthly basis. Where payment is made for part of a month, the exact number of days in the month is to be used to determine the daily rate. Teachers whose annual compensation is paid in ten parts shall be shown on the pay roll in like manner.

For all other officers and employees the annual rate of compensation shall first be divided by the number of days in the year, less Sundays, to determine the daily rate (three hundred and fourteen days for 1920). Employees shall be paid only for days on duty and actually employed. To arrive at the amount of wages to be paid, multiply the daily rate by the number of days actually worked.

For hour rate for engineers, firemen, laborers, workmen and mechanics, divide the daily rate by 8; for farm help and persons employed upon the grounds and in the garage and stables, divide the daily rate by 10.

HOURS OF LABOR.

Laborers, workmen and mechanics shall be paid on a basis of a week of forty-eight hours for forty-four hours' work. (Chapter 240, General Acts of 1916.)

Engineers and firemen work a forty-eight hour week.

Employees in the clerk group shall work five and one-half days of eight hours each with pay for six full days.

Overtime pay will not be allowed except under emergency conditions, and then only with the approval of this Department.

VACATIONS.

Every officer and employee must render at least six months' continuous service to become entitled to any part of an annual vacation. (Except laborers, workmen and mechanics whose vacations are governed by chapter 152, General Acts of 1919.)

All officers and employees shall be entitled to annual vacations with pay of twelve working days.

Exceptions. — Vacations for physician group will be governed by regulations in force, namely two weeks at the end of each of the first three years of service; three weeks annually for the next two years; and four weeks' vacation after five years of service.

Temporary employees and employees engaged on work carried on by the institution and covered by special appropriations shall not be entitled to vacations.

Vacations and time off duty shall be arranged at each institution by the superintendent.

RELATIVE TO CASES AT PSYCHOPATHIC HOSPITAL.

The Psychopathic Hospital, on Dec. 1, 1920, becomes a separate institution, in accordance with chapter 537, Acts of 1920. The following regulations were adopted by the Department: —

1. With the exception of voluntary patients, all patients are to be transferred from the Psychopathic Department of the Boston State Hospital to the Boston Psychopathic Hospital on Dec. 1, 1920. All voluntary patients to be transferred to the main department of the Boston State Hospital on or before November 30, or to be discharged November 30, and such voluntary patients as are remaining at the Psychopathic Hospital to be readmitted at that institution.

2. Admissions to the Boston Psychopathic Hospital are to be primarily from the metropolitan district, but selected cases for study or intensive treatment may be accepted from any portion of the State.

3. At the expiration of the temporary-care or observation period, patients are to be removed from the hospital or committed to the institutions for the districts where they reside, under the regulations of the Department of Mental Diseases.

4. Patients are not to be committed from the community to the Psychopathic Hospital, but are to be admitted under the various provisions for temporary care, except such persons as may be committed for observation from the city of Boston.

5. Patients committed to other institutions are to be conveyed to those institutions by the officer of the court.

6. Patients committed to the Boston Psychopathic Hospital after the observation period, for a longer period of study or treatment, are to be transferred to other institutions by State transfer agents upon application by the chief executive officer of the hospital.

A JOINT SPECIAL COMMITTEE.

A joint special committee on public institutions was appointed in June, 1919, to investigate conditions prevailing at the various State institutions. Their report was made to the Legislature of 1920. Their recommendations as they relate to the institutions under this Department are as follows:—

1. Material increase in the salaries and wages of employees for the purpose of raising the standard of efficiency among institutional help.

2. Improvement of housing and living conditions for employees, including superintendents and medical staffs of all State institutions,—special attention being accorded to the erection of detached cottages for married employees.

3. Classification and segregation of inmates of penal institutions, of hospitals for the care of mental diseases, and of State institutions conducted by the Department of Public Welfare.

4. Immediate transfer of the feeble-minded to institutions conducted exclusively for that class of patients.

5. Establishment of a psychopathic hospital, to be operated as an individual institution, in each of the five hospital districts of the Commonwealth.

6. Installation of a printing plant or printing plants in one or more State institutions with the intent that a certain portion of State printing may ultimately be furnished by these plants.

7. Adoption of a general plan for hospital development covering a ten-year period, under which all improvements shall be of sufficient magnitude to take care of all demands which may be anticipated on the respective buildings during these ten years, an equal division of appropriations for the entire project to be made yearly during that period.

MISCELLANEOUS.

Development at the School for the Feeble-minded at Belcher-town has progressed more rapidly than heretofore. Provisions have been made for an additional custodial building, one dormitory and two employees' cottages, with the expectation that this institution can be ready for the reception of the feeble-minded during the next fiscal year.

Representatives of the government consulted with the State authorities as to the possibility of using the Summer Street Department of the Worcester State Hospital for the care of war-risk beneficiaries. Consideration is being given to the matter. In order that negotiations with the Federal government could be made, should the government so desire, a bill was introduced and legislation enacted, authorizing the Summer Street Department to be leased to the United States government.

The net cost of maintenance for the State institutions under this Department, *i.e.*, inclusive of the insane, feeble-minded and epileptic, for the year ending Nov. 30, 1920, was \$7,090,760. The annual per capita cost was \$380, an increase over the previous year of \$57. This is \$1.04 per day per patient. The increase was due largely to the added cost of personal service and supplies. The average monthly compensation of all employees increased from \$54.66, in 1919, to \$67.60 in 1920.

During the year there were deported to other States and countries 166 patients: 80 of these were sent to other States, 65 were returned to other countries by the United States Commission of Immigration, and this Department forwarded 21. The whole number deported increased 82 over the previous year.

By agreement with the United States government, arrangements were made to care for war-risk beneficiaries under commitment in institutions, reimbursement being made for the same. This has increased the work of the Department. On Nov. 30, 1920, there were 381 such cases remaining in institutions.

The shortage in employees at the institutions continues, thus making their proper administration difficult.

During the last fiscal year there was an average of 32 vacancies on the medical staffs of the hospitals under supervision and 721 vacancies of nurses and attendants on the ward service. These vacancies averaged 30 per cent of the full quota.

RECOMMENDATIONS FOR LEGISLATION.

1. To authorize the Department of Mental Diseases to provide for the interstate transfer of indigent insane persons.

This legislation is desired for the purpose of empowering the Department of Mental Diseases to transfer to the Bridgewater State Hospital certain vicious and dangerous inmates of other State hospitals, also to permit the Department of Mental Diseases to send to their residences in other States or countries certain inmates of the Bridgewater State Hospital who had been committed by the inferior courts and who would be entitled to release had they remained in the prison department of the State Farm.

2. Relative to the support of inmates of institutions under the supervision of the Department of Mental Diseases.

On account of the increased cost of hospital care, it is necessary to increase the rate of support of hospital patients. This department is allowed to collect at the present time \$6 a week, which is less than the present cost of support. It is therefore desired to increase the rate of reimbursement to \$7 per week, which represents the approximate present cost.

3. To increase the rate of board for insane persons boarded out in families.

The present rate of board is \$3.75 per week. Legislation is desired to permit of an increase to a maximum of \$4.50 a week.

4. To give the court jurisdiction in certain cases.

In order to give the court jurisdiction in certain cases, it is desired to amend section 15 of chapter 219 of the Revised Laws.

REVIEW OF THE YEAR.

ALL CLASSES UNDER CARE.¹

The number and location of the classes *actually in the institutions* and in family care Oct. 1, 1920, were: —

LOCATION.	Insane.	Feeble-minded.	Epileptic (Sane).	Voluntary (Sane).	Inebriate.	Temporary Care.	Total.	Other Classes.
Worcester State Hospital,	1,992	-	-	2	-	2	1,996	-
Taunton State Hospital,	1,295	-	-	-	-	6	1,301	-
Northampton State Hospital,	984	-	-	-	-	1	985	-
Danvers State Hospital,	1,582	-	-	-	-	6	1,588	-
Westborough State Hospital,	1,332	-	-	5	-	3	1,340	-
Boston State Hospital,	1,827	-	-	-	-	27	1,854	-
Grafton State Hospital,	1,394	-	-	-	-	-	1,394	-
Medfield State Hospital,	1,563	-	-	-	-	-	1,563	-
Gardner State Colony,	866	-	-	-	-	-	866	-
Monson State Hospital,	286	-	674	-	-	-	960	-
Foxborough State Hospital,	494	-	-	-	5	-	499	-
Bridgewater State Hospital,	824	-	-	-	-	-	824	-
Mental Wards, State Infirmary,	690	-	-	-	8	-	698	-
Family care under Department,	34	-	-	-	-	-	34	-
Massachusetts School for the Feeble-minded at Waltham,	-	1,598	-	-	-	-	1,598	-
Wrentham State School,	-	1,222	-	-	-	-	1,222	-
Hospital Cottages for Children, ²	-	85	-	-	-	-	85	21
McLean Hospital,	203	-	-	3	-	-	206	-
Elm Hill Private School and Home for the Feeble-minded,	-	38	-	-	-	-	38	-
Twenty other private institutions,	152	35	-	21	12	1	221	44
Almshouses, ³	-	227	-	-	-	-	227	-
Total under care,	15,518	3,205	674	31	20	51	19,499	65
Viz.: —								
Public care,	15,163	3,132	674	7	8	50	19,034	21
Institutions and family care under trustees,	15,129	2,905	674	7	8	50	18,773	21
Family care under Department,	34	-	-	-	-	-	34	-
Almshouses,	-	227	-	-	-	-	227	-
Private care,	355	73	-	24	12	1	465	44
McLean Hospital,	203	-	-	3	-	-	206	-
Twenty-one private institutions,	152	73	-	21	12	1	259	44

¹ See Tables Nos. 11 and 12 for whole number under care, inclusive of patients absent on visit or escape.

² Placed again under care of Department, April, 1918.

³ Taken from reports of overseers of poor, March, 1920.

THE WHOLE NUMBER OF THE CLASSES

under care Oct. 1, 1920, was 19,499, being 1 such person to every 197 of the population of the State. Of this number, 15,518, or 75.83 per cent, were insane; 3,205, or 16.44 per cent, feeble-minded; 674, or 3.46 per cent, epileptic (sane); 20, or .10 per cent, inebriate; and 51, or .26 per cent, temporary-care cases. There was an increase for the year of 305.

The whole number of such persons under public care was 19,034; under private care, 465.

The increase of such persons under public care for the year was 332; their average annual increase for the last five years, 266.

THE INSANE

in institutions and family care Oct. 1, 1920, numbered 15,518, being 1 insane person to every 248 of the population of the State. In addition, there were 1,563 persons who were temporarily absent from institutions, and a considerable number of others in the community who had been previously discharged or had never appeared in institutions for the insane. The figures for insane this year are exclusive of the temporary-care cases who appeared under the insane heading for the three previous years.

The insane appear under public care in public institutions and in family care, at public expense, and under private care in private institutions. Their number and increase in these locations for the year, the last five years, the last ten years and the last twenty-five years are shown as follows:—

	NUMBER OCT. 1, 1920.			INCREASE OVER PRE- VIOUS YEARS.					Average Increase, Five Years.	Average Increase, Ten Years.	Average Increase, Twenty-five Years.
	Males.	Females.	Totals.	1920.	1919.	1918.	1917.	1916.			
Public institutions, ¹	7,326	7,803	15,129	171	74 ²	92	311	319	163.8	315.0	384.32
Family care under Department.	-	34	34	4 ²	6 ²	3 ²	17 ²	22 ²	10.4 ²	24.1 ²	4.32 ²
Total, public,	7,326	7,837	15,163	167	80 ²	89	294	297	153.4	290.9	380.00
Private institutions,	110	245	355	12	5 ²	-	7 ²	5	1.0	3.5	5.72
Total, public and private.	7,436	8,082	15,518	179	85 ²	89	287	302	154.4	294.4	385.72

¹ Includes 182 patients in family care by trustees.

² Decrease.

THE INCREASE OF THE INSANE

under care for the year was 179, compared with a decrease of 85 the previous year; 154, the average annual increase for the last five years; 294, the last ten years; and 385, the last twenty-five years.

The number of non-resident insane was 98, compared with 79 the previous year, and 80, the average number the last five years. All of these patients were in private institutions.

It is the policy of the State not to receive into its institutions non-residents, even as private patients, unless their friends are resident in Massachusetts and have just claims for such service.

THE INCREASE OF THE INSANE UNDER PUBLIC CARE

was 167, compared with a decrease of 80 the previous year; 153, the average annual increase for the last five years; 290, the last ten years; and 380, the last twenty-five years.

THE INSANE UNDER PRIVATE CARE

increased 12, compared with an average annual increase for the last five years of 1; the last ten years, 3; and 5, the last twenty-five years.

THE DECREASE OF THE INSANE IN FAMILY CARE UNDER THE DEPARTMENT

was 4. The number in family care under institutions on Oct. 1, 1920, was 182, a decrease of 35.

The number under family care has continued to decrease because of the advance in the cost of living and the small rate of board paid. Under more normal conditions, it is hoped that the number of patients placed in family care will again show an increase.

ALL ADMISSIONS OF MENTAL PATIENTS

from the community to public institutions and McLean Hospital were 3,694. They comprise commitments as insane, voluntary admissions of the insane, and voluntary admissions of mental patients who were classed as sane.

Admissions as insane to public institutions and McLean Hospital, inclusive of voluntary insane, numbered 3,684. Temporary-care cases which appeared under this heading for three previous years have been excluded this year, in accordance with the request of the committee on statistics of the American Medico-Psychological Association.

Voluntary admissions of the insane, which are included in the above figure, were 439, compared with 634 the previous year.

Public institutions received 388 such patients, and McLean Hospital, 61.

Voluntary admissions of mental patients who were classed as sane were 10, compared with the same number the previous year.

ALL VOLUNTARY ADMISSIONS

to public institutions and McLean Hospital were 449, compared with 672 the previous year. Public institutions received 388 such patients, compared with 582 the previous year, and 552 the average the last five years. McLean Hospital received 61 such patients, compared with 90 the previous year.

FIRST CASES OF INSANITY

appeared in public institutions and McLean Hospital to the number of 2,819. Of all the admissions of the insane to these institutions (inclusive of insane voluntary), 76.52 per cent appeared for the first time in any institution for the insane, compared with 73.77 per cent, a two years' average. One insane person came under care for the first time from every 1,366 of the population of the State.

THE NATIVITY

of such first cases of insanity does not differ materially from the percentages of the previous year. Exclusive of 12 whose birthplaces were unknown, 1,616, or 57.57 per cent, were born in the United States, compared with 56.62 per cent the previous year, and 1,191, or 42.43 per cent, in foreign countries, compared with 43.38 per cent the previous year.

THE PARENTAGE

also corresponds substantially with the percentages of previous years. Exclusive of 176 whose birthplaces were unknown, 901, or 32.86 per cent, of the parents of male patients were born in the United States, compared with 31.59 per cent the previous year, and 1,841, or 67.14 per cent, in foreign countries, compared with 68.41 per cent the previous year.

Exclusive of 170 whose birthplaces were unknown, 850, or 33.28 per cent, of the parents of female patients were born in

the United States, compared with 32.08 per cent the previous year, and 1,704, or 66.72 per cent, in foreign countries, compared with 67.92 per cent the previous year.

CITIZENSHIP.

Of the 2,819 first admissions as insane, 1,611, or 57.15 per cent, were citizens by birth, compared with 56.29 per cent the previous year, and 334, or 11.85 per cent, by naturalization, compared with 12.91 per cent the previous year. There were 640 aliens, or 22.70 per cent, compared with 27.54 per cent the previous year, and 234, or 8.30 per cent, where the citizenship was unascertained, compared with 5.26 per cent the previous year.

PSYCHOSES OF FIRST ADMISSIONS

were as follows:—

PSYCHOSES.	1920.		Average, Three Previous Years (Per Cent).
	Cases.	Per Cent.	
Traumatic,	5	.18	.38
Senile,	311	11.03	8.06
With cerebral arteriosclerosis,	264	9.36	7.58
General paralysis,	225	7.98	7.39
With cerebral syphilis,	17	.60	1.20
With Huntington's chorea,	4	.14	.15
With brain tumor,	12	.42	.23
With other brain or nervous diseases,	29	1.03	.97
Alcoholic,	102	3.62	9.37
Due to drugs and other exogenous toxins,	12	.43	.21
With pellagra,	6	.21	.17
With other somatic diseases,	35	3.01	2.93
Manic-depressive,	294	10.43	8.34
Involution melancholia,	59	2.09	2.03
Dementia præcox,	763	27.07	24.89
Paranoia and paranoic conditions,	52	1.84	1.65
Psychoneuroses,	110	3.90	2.28
With mental deficiency,	43	1.52	2.28
With constitutional psychopathic inferiority,	34	1.21	.46
Epileptic,	89	3.16	2.42
Undiagnosed,	140	4.99	5.51
Not insane,	163	5.78	11.50

The following 6 forms — namely, senile, 11.03 per cent; with cerebral arteriosclerosis, 9.36 per cent; general paralysis, 7.98 per cent; alcoholic, 3.62 per cent; manic-depressive, 10.43 per cent; dementia præcox, 27.07 per cent — furnished 69.49 per cent of first admissions, compared with 63.73 per cent the previous year.

RACE.

The races named below furnished the greatest number of first admissions.

RACE.	1920.		Average, Three Previous Years (Per Cent).
	Cases.	Per Cent.	
English,	707	25.08	28.07
Irish,	639	22.67	25.50
Slavonic,	126	4.50	5.28
French,	184	6.53	5.51
German,	62	2.20	2.42
Italian,	130	4.61	4.45
Scotch,	79	2.80	2.35
Scandinavian,	67	2.38	2.37
Mixed,	405	14.37	10.67
Hebrew,	106	3.76	3.08
African black,	62	2.20	1.81

AGES.

YEARS.	1920.		Average, Three Previous Years (Per Cent).
	Cases.	Per Cent.	
Under 20,	184	6.53	8.55
From 20 to 25,	223	7.91	10.18
From 25 to 30,	288	10.22	10.72
From 30 to 35,	289	10.25	11.30
From 35 to 40,	274	9.72	10.44
From 40 to 45,	246	8.73	9.14
From 45 to 50,	256	9.08	8.38
From 50 to 55,	190	6.74	7.32
From 55 to 60,	154	5.46	5.44
From 60 to 65,	166	5.89	4.88
From 65 to 70,	162	5.75	4.17
Over 70,	387	13.72	9.48

DEGREE OF EDUCATION.

	1920.		Average, Three Previous Years (Per Cent.).
	Cases.	Per Cent.	
Illiterate,	281	9.97	9.52
Could read and write,	438	15.54	16.62
Attended common school,	1,621	57.50	53.32
High school education,	314	11.14	10.33
Attended college,	82	2.91	2.55
Education unascertained,	83	2.94	7.66

ENVIRONMENT.

The urban districts furnished 2,426, or 86.06 per cent, of the first admissions, compared with 85.82 per cent the previous year; rural localities, 391, or 13.87 per cent, compared with 14.05 per cent the previous year; and there were 2, or .07 per cent, whose place of residence was unknown, compared with .13 per cent the previous year.

THE ECONOMIC CONDITIONS

of these admissions are shown as follows:—

	1920.		Average, Three Previous Years (Per Cent.).
	Cases.	Per Cent.	
Dependent,	379	13.45	16.16
Marginal,	1,712	60.73	63.30
Comfortable,	691	24.51	18.52
Unascertained,	37	1.31	2.12

USE OF ALCOHOL.

	1920.		Average, Three Previous Years (Per Cent.).
	Cases.	Per Cent.	
Abstinent,	1,636	58.04	42.32
Temperate,	680	24.12	25.35
Intemperate,	298	10.57	22.18
Unascertained,	205	7.27	10.15

MARITAL CONDITION.

It appears that 1,132, or 40.16 per cent, were single at the time of admission, compared with 43.58 per cent the previous year; 1,174, or 41.64 per cent, married, compared with 40.38 per cent the previous year; 443, or 15.71 per cent, widowed, compared with 13.34 per cent the previous year; 18, or .64 per cent, separated, compared with .60 per cent the previous year; 47, or 1.67 per cent, divorced, compared with 1.25 per cent the previous year; and there were 5, or .18 per cent, whose marital condition was unknown, compared with .94 per cent the previous year.

ALL DISCHARGES.

THE RESULTS OF MENTAL DISEASES

at public institutions and McLean Hospital are shown in the conditions of patients on discharge.

	1920.		Average, Three Previous Years (Per Cent).
	Cases.	Per Cent.	
Recovered,	396	18.97	14.23
Improved,	1,111	53.21	33.70
Not improved,	436	20.88	36.02
Not insane at time of discharge,	145	6.94	16.05

THE RECOVERY RATE

for the whole State numbered 433, or 11.75 per cent of all admissions of the insane.

The percentages of recoveries under public care and at McLean Hospital (inclusive of insane voluntary and temporary care) were: —

	1920 (Per Cent).	Average, Three Previous Years (Per Cent).
Of admissions,	10.74	8.80
Of daily average number,	2.29	3.05

DEATHS.

The death rate of the insane *for the whole State* during the year was 8.46 per cent of the daily average number on books, compared with 11.75 per cent the previous year. The percentages of deaths in public institutions and McLean Hospital were: —

	1920 (Per Cent).	Average, Three Previous Years (Per Cent).
Of daily average number,	8.38	10.82
Of discharges (inclusive of deaths),	40.90	32.60

Cerebral arteriosclerosis was present in 16.60 per cent; general paralysis in 15.98 per cent; manic-depressive in 6.22 per cent; dementia præcox in 20.13 per cent; epilepsy in 3.59 per cent; alcoholic psychosis in 3.39 per cent; senile psychosis in 19.72 per cent.

These seven forms were present in 85.63 per cent of the deaths, compared with 83.59 per cent the previous year.

THE AGE OF PATIENTS

at time of death was as follows:—

YEARS.	1920 (Per Cent).	Average, Three Previous Years (Per Cent).
Under 20,	1.10	1.17
20 to 25,	1.78	2.83
25 to 30,	3.29	3.89
30 to 35,	6.11	5.87
35 to 40,	6.11	7.68
40 to 45,	8.65	9.04
45 to 50,	7.82	7.64
50 to 55,	7.48	8.89
55 to 60,	7.21	8.92
60 to 65,	9.40	10.22
65 to 70,	10.78	9.71
70 and over,	30.27	24.14

THE DURATION OF HOSPITAL LIFE

of patients who died was as follows:—

DURATION.	1920 (Per Cent).	Average, Three Previous Years (Per Cent).
Less than 1 month,	14.89	15.31
1 to 3 months,	14.28	11.84
4 to 7 months,	9.40	9.41
8 to 12 months,	7.48	6.34
1 to 2 years,	9.42	16.05
3 to 4 years,	8.31	9.14
5 to 10 years,	11.53	13.43
10 to 15 years,	4.81	7.09
15 to 20 years,	3.29	4.65
20 years and over,	6.59	6.74

Further statistical details will be found in the Appendix, beginning with Table No. 11, on which the foregoing statements and conclusions are based.

THE FEEBLE-MINDED.

THE WHOLE NUMBER OF THE FEEBLE-MINDED

actually in the institutions and in almshouses Oct. 1, 1920, was 3,205, being 1 feeble-minded person to every 1,201 of the estimated population of the State.

The feeble-minded appear under public care in public institutions and almshouses, and under private care in private institutions. Their number and increase in these locations for the year and the last five years are shown as follows: —

	NUMBER OCT. 1, 1920.			INCREASE OVER PREVIOUS YEARS.					Average Increase, Five Years.
	Males.	Females.	Totals.	1920.	1919.	1918.	1917.	1916.	
School for the Feeble-minded at Waltham.	951	647	1,598	65	18 ¹	25 ¹	14 ¹	44 ¹	7.2 ¹
Wrentham School,	501	721	1,222	16	6 ¹	115	105	318	109.6
Hospital Cottages for Children, ²	54	31	85	10	1	74	—	—	17.0
Almshouses,	124	103	227	3	35	24 ¹	30 ¹	9	1.4 ¹
State Infirmary,	—	—	—	—	—	—	—	—	—
Total, public,	1,630	1,502	3,132	94	12	140	61	283	118.0
Elm Hill,	27	11	38	3 ¹	1 ¹	2 ¹	4 ¹	1 ¹	2.2 ¹
Smaller private institutions, .	6	29	35	8 ¹	5 ¹	33	3	1 ¹	4.4
Total, public and private, .	1,663	1,542	3,205	83	6	171	60	281	120.2

¹ Decrease.

² Placed again under care of Department, April, 1918.

THE INCREASE OF THE FEEBLE-MINDED

under care for the year was 83, compared with an increase of 6 the previous year, and 120, the average increase for the last five years.

The number of non-resident feeble-minded was 27, compared with 34 the previous year. Of these, 59 were patients in private institutions, and 8 were private patients in State institutions.

It is the policy of the State to receive feeble-minded persons from other States only when there is no school for the feeble-minded in such States, and then only in urgent cases. The non-resident patients are paid for at a rate which fully compensates the State for the cost of their maintenance.

THE EPILEPTIC.

THE WHOLE NUMBER OF THE EPILEPTIC

under care Oct. 1, 1920, was 1,421, being 1 epileptic to every 2,711 of the estimated population of the State.

The epileptic appear under public care in the Monson State Hospital, the State hospitals and other public institutions, and under private care in private institutions. Details will be found under the Monson State Hospital.

Their number and increase in these locations for the year and for the last five years are shown as follows: —

	NUMBER OCT. 1, 1920.			INCREASE OVER PREVIOUS YEARS.					Average Increase, Five Years.
	Males.	Females.	Totals.	1920.	1919.	1918.	1917.	1916.	
Monson Hospital,	460	500	960	38	32 ¹	88 ¹	49	22 ¹	11.0 ¹
Public institutions for insane, . .	197	179	376	8 ¹	59 ¹	7 ¹	31 ¹	57	9.6 ¹
Schools for the Feeble-minded, . .	5	3	8	5 ¹	—	—	—	—	1.0 ¹
Hospital Cottages,	37	23	60	8	5 ¹	57	—	—	12.0
Total, public,	699	705	1,404	33	96 ¹	38 ¹	18	35	9.6 ¹
Private institutions,	9	8	17	10	3 ¹	3	4 ¹	1	1.4
Total, public and private, . .	708	713	1,421	43	99 ¹	35 ¹	14	36	8.2 ¹

¹ Decrease.

In addition, the overseers of the poor report (March 31, 1920) 59 epileptics in city and town almshouses and private families.

THE INCREASE OF THE EPILEPTIC

under care for the year was 43, compared with a decrease of 99 the previous year, and 8, the average decrease for the last five years.

REPORT OF THE PATHOLOGIST AS ACTING DIRECTOR,
MASSACHUSETTS STATE PSYCHIATRIC INSTITUTE.

To the Department of Mental Diseases.

Following is the pathologist's twelfth report and the eleventh to cover a full year of work.

The duties of the pathologist to the Department, originally

appointed May 1, 1909, have been designated as follows: (1) supervision of the clinical, pathological and research work in the various institutions under the Department's supervision and control; (2) visits to the institutions from time to time; and (3) reports to the Department comprising conditions, observations and such recommendations as result therefrom.

These duties have been modified, and the entire scope of the pathological service was broadened after the establishment of the Psychopathic Hospital and the appointment of the Department's pathologist to the directorate of the hospital. This directorate was (May 1, 1919) transferred to a new department of the Department's work, namely, to the Massachusetts State Psychiatric Institute.

The research laboratories heretofore established and now maintained at the Psychopathic Department of the Boston State Hospital by the Massachusetts Department of Mental Diseases are hereby continued and shall hereafter be known as the Massachusetts State Psychiatric Institute. Such institute shall be under the general supervision and control of the Massachusetts Department of Mental Diseases, and shall be maintained by the Department from appropriations obtained for the purpose.

The object of the institute shall be —

1. To make psychiatric and pathological researches and investigations.

2. To give instruction in psychiatry, neurology, pathology, psychology and social service, with special reference to instruction in the nature, causes, treatment and results of mental diseases and defects.

3. To promote the advancement of mental hygiene.

4. To encourage scientific work in the institutions.

5. To co-ordinate publications of a scientific nature.

6. To carry on the routine and special duties of the pathological service of the Department.

7. To supervise and correlate the clinical and laboratory work of the institutions under the Department.

For the purpose of clinical studies, scientific research and instruction, the clinical facilities of the institutions under the Massachusetts Department of Mental Diseases, including the Psychopathic Department of the Boston State Hospital, shall be placed at the disposal of the institute.

The director of such institute shall be psychiatrist to the Massachusetts Department of Mental Diseases. He shall be

appointed, together with such other officers and employees as may be deemed necessary, and their compensation shall be fixed by the Department. The director shall perform, under the direction of the Department, such duties relating to psychiatric and pathological research and the instruction of medical staffs of the institutions under the Department, and such other duties as may be required by the Department. He shall have the supervision and control of such institute and of the physicians and other employees therein, subject to the general direction, supervision and control of the Department. The institutions under the Department shall co-operate with the institute in such manner as the Department may, from time to time, direct. Such officers and employees as the Department may determine shall, if required by the Department, reside at the Psychopathic Department of the Boston State Hospital or such other institutions as may be determined, and shall be furnished maintenance in whole or in part.

I. GENERAL.

The fiscal year, Dec. 1, 1919, opened with much hope for rapid progress in the re-establishment in the whole hospital system of a pre-war program and a substantial advance in the study, care and treatment of patients suffering from mental disease and defect.

A plan much supported by the director and by the workers was to have, in the institute or ex-institute, officers who would be interested in the eleven clinical groups of the director, as research problems, namely: —

- | | |
|---|---------------------|
| 1. Syphilitic, | Syphilopsychoses. |
| 2. Feeble-minded, | Hypophrenoses. |
| 3. Epileptic, | Epileptoses. |
| 4. Alcoholic, drug, poison, | Pharmacopsychoses. |
| 5. Focal brain ("organic," arteriosclerotic), | Encephalopsychoses. |
| 6. Bodily disease ("symptomatic"), | Somatopsychoses. |
| 7. Senescent, senile, | Gerropsychoses. |
| 8. Dementia præcox, paraphrenic, | Schizophrenoses. |
| 9. Manic-depressive, cyclothymic, | Cyclothymoses. |
| 10. Hysteric, psychasthenic, neurasthenic, | Psychoneuroses. |
| 11. Psychopathic, paranoiaic, <i>et al.</i> , | Psychopathoses. |

These eleven workers would therefore focalize their interest on the problems these groups presented, and the worker could be stimulated and the work readily reviewed by the director.

The first group worker, Dr. H. C. Solomon, who has been special investigator in brain syphilis since 1915, under a grant from the United States Interdepartmental Social Hygiene Board, together with Maida H. Solomon, Dr. James L. Thompson, Dr. Bernice Bartlett, Dr. Mervin H. Hirschfeld and Dr. Annie E. Taft, assisted from time to time by Gerna S. Walker and Madeline Everett, embarked upon a very comprehensive unit of work, as follows:—

The general plan of treatment was similar to that of previous years, that is, having each State hospital care for the syphilis work in its hospital, with consulting power only left to the officers of the Psychiatric Institute.

The work at the Summer Street Department of the Worcester State Hospital, established by the Department of Mental Diseases in 1916 with Dr. D. A. Thom in charge, and subsequently presided over by Drs. Ada F. Harris, O. J. Raeder, G. K. Butterfield, is again in the hands of Dr. A. F. Harris, in pursuance of the policy of the Department to have the work cared for by the hospitals rather than by the Department. Dr. Thompson has been active in carrying on the treatments at the Boston State Hospital and the Psychopathic Department. The neurosyphilis clinic at 74 Fenwood Road shows a yearly gain in attendance.

Continuous treatment has also been carried on at Danvers and Taunton, and a larger number of general paretics was paroled as a result of improvement obtained during treatment, than would otherwise have enjoyed this privilege, according to previous experience with this type of patient.

Investigation into the changes affected in the central nervous system of cases of neurosyphilis by treatment has been progressing. Dr. M. H. Hirschfeld, an interne at the institute, gave much valuable assistance in this work; the research is being carried on by Dr. A. E. Taft.

Study of the various aspects of syphilis from the standpoint of investigation rather than routine has been made possible by the United States Interdepartmental Social Hygiene Board. These researches have been made by Maida H. Solomon, assisted by G. S. Walker. Mrs. Solomon has also directed the routine social work of the syphilis service, which position is now financed by the State, formerly financed by private grants and more recently by the Permanent Charity Foundation. Miss Madeline Everett has been certified by the civil service and continues the work.

Dr. Solomon has turned in his first report on the results of treatment of syphilis to the Interdepartmental Social Hygiene Board at Washington, and has had very favorable comments on it, with authorization to continue the work, and advised of an additional grant of \$6,000 to continue the work.

Relieved of the *pro tem.* work in syphilis by the return of Lieut. H. C. Solomon, Dr. O. J. Raeder turned his attention to the second group — hypophrenics — and, at the instance of the Commission on Mental Diseases, spent a month in New York working with Dr. Water Timme, to get a viewpoint from this endocrinologist to apply to the problem of the feeble-minded, and made a study of one hundred autopsied cases, with the following conclusions:—

1. The evidence of gland changes observed in these cases by routine examination methods, clinical and post mortem, without particular reference to endocrinology, is so constant and multifarious that we cannot but regard them most seriously. There were gland changes of one sort or another in 74 per cent of cases. Marked gland changes occurred in 21 per cent.

2. With the constant and characteristic bony and soft tissue changes, microsomia, lowered resistance to infection, poor circulation, loose jointedness, and changes in the glands of internal secretion, Mongolian idiocy bids fair to be founded on an endocrine pathology.

3. The internal secretions begin to exert their influence early in the life of the organism. It is known that permanent adjustments of the other glands and tissues follow on the absence or dysfunction of one gland or set of glands. In order to avoid such permanent changes as infantilism, dwarfism, acromegaly, microcephaly and feeble-mindedness, it is imperative that these conditions be recognized and remedied by supplying the deficient hormone or inhibiting the hyperfunction of a gland early in the course of the disease. After permanent adjustments have formed, improvement is difficult; with early treatment, results are often little short of marvelous.

4. Much of the finer pathology of the ductless glands is concerned with biochemical reactions. Further studies of feeble-mindedness by physiochemical and roentgenologic research would no doubt throw more light on this obscure field.

Moreover, Dr. Raeder took an active interest in the publication of the second series of ten cases from the Waverley School for the Feeble-minded, and spent much time making descriptions

of total brain sections and preparing the manuscript for publication.¹

The brains of three Mongolian idiots from the third series of ten were described and read in a scientific section of the American Medico-Psychological Association June, 1920. Together with these productive activities the Thursday clinics of Dr. Fernald's at the Massachusetts School for the Feeble-minded drew him there for examinations of selected patients from an endocrine standpoint, with X-ray and blood chemistry determinations in addition.

Elaborate plans for collaboration with Drs. Fernald and Timme in a monograph on Mongolism are in process. These plans were temporarily suspended by Dr. Raeder's appointment at the American Hospital of Paris for one year.

Dr. Douglas A. Thom, previously with the Department in the capacity of assistant pathologist, elected the third group for his major interest, and spent some time in England working in organic neurology with the epileptic problem in the foreground. On his return to the United States he began a survey of the economic efficiency of the epileptic.

A book, "The Kingdom of Evil," a case study in psychiatric social work, was nearly completed, containing a report and review of two hundred cases treated from the social point of view, with Mary C. Jarrett, and another book with Myrtelle M. Canavan, on "The Pathological Anatomy of Mental Disease based on one thousand Autopsies," was begun when the great blow fell that separated all the growing plans from fruition, in the death of the director from pneumonia in New York, after a week of brilliant medical addresses, Feb. 8, 1920. In the immediate circle of his pupils no rally was possible. Months passed before any individual attempt or plan could be formulated to even conduct a portion of his work, but urge from countless sources lifted the gloom in order to finish some of his cherished projects.

Certain manuscripts left in press have been completed, notably, "An Attempt at an Orderly Grouping of the Feeble-mindednesses (Hypophrenias) for Clinical Diagnosis," by Dr. E. E. Southard; "Morbi Neurales," by Drs. E. E. Southard and H. C. Solomon; and Dr. O. J. Raeder has prepared for press the second ten of the Waverley Researches.

¹ After Dr. Southard's death.

The Department of Mental Diseases published a memorial number to Dr. Southard, with his complete bibliography, so that his conclusions may be readily accessible to his scores of admirers.

II. ROUTINE OF THE PATHOLOGICAL SERVICE: AUTOPSIES.

Since the establishment of the pathological service in July, 1914, a period of seventy-seven months, there have been 1,418 autopsies performed, the vast majority by the service authors, in some instances (though much fewer this year) by hospital pathologists acting as prosectors. It will be noted that these autopsies are nearly all autopsies which would not have been performed except for the facilities of the Department's pathological service, for the majority of these autopsies, as the table will show, are done where they have no pathological service of their own. Where an institution has too few deaths, or for other reasons does not maintain a pathological laboratory, the Department has stepped in to round out the pathological work of the State and give uniform advantages of pathological examinations to all institutions.

During the year ending Nov. 30, 1920, there were 225 autopsies, 12 more than the previous year.

The following table shows the number of autopsies performed in the different institutions by the pathological service of the Department (and exclusive of autopsies performed by the staffs of the institutions).

Boston Hospital,	85
Westborough Hospital,	53
Worcester Hospital,	21
Grafton Hospital,	21
Psychopathic Department, Boston Hospital,	15
Foxborough Hospital,	8
Gardner Colony,	5
Bridgewater Hospital,	6
Massachusetts School for the Feeble-minded,	4
Taunton Hospital,	4
Monson Hospital,	1
Northampton Hospital,	1
Miscellaneous,	1
Total,	225

Table showing Proportion of Autopsies to Deaths in Institutions.

	Total Number of Deaths for Year.	Total Number of Autopsies.	Per Cent.
Foxborough Hospital,	38	25 (8 ¹)	66
Medfield Hospital,	99	51	52
Westborough Hospital,	111	57 (53 ¹)	51
Grafton Hospital,	49	24 (21 ¹)	49
Worcester Hospital,	249	97 (21 ¹)	39
Taunton Hospital,	213	83 (4 ¹)	39
Boston Hospital,	244	85 ¹	35
Danvers Hospital,	215	62	29
Psychopathic Department, Boston Hospital, . .	57	15 ¹	26
Bridgewater Hospital,	33	8 (6 ¹)	24
Massachusetts School for the Feeble-minded, . .	22	4 ¹	18
Gardner Colony,	38	5 ¹	13
State Infirmary, mental wards,	43	4	9
Monson Hospital,	69	2 ¹	3
Northampton Hospital,	135	2 (1)	1
Wrentham School,	17	—	—
Miscellaneous,	1	—	—
	1,633	524	—

Total number of deaths in State hospitals in Massachusetts in fiscal year, 1,633

Total number of autopsies performed, 524

(a) By laboratories independent of Department, 299

(b) By Department, 225

¹ Done by Department.

The routine of the pathological service naturally deals primarily with cases of sudden death, not only those which are medico-legal, in the narrow sense of a suspicion of foul play, but also other sudden deaths where there might be a question of negligence or accident. The following table gives data concerning sudden deaths reported to the Department:—

Sudden deaths reported to Department,	84
Number autopsied,	54
Number autopsied by service,	30
Found dead,	10
Organic heart disease,	8

Miscellaneous and unknown,	24
Suicides,	13
Acute infection,	14
Arteriosclerosis or coronary,	1
Complicated by fractures,	14
Epilepsy and asphyxia,	2
General paresis or tabes,	5
Choked by food,	5
Homicides,	2
Carcinoma,	1

The sudden deaths in the State hospitals in seven years are herewith presented (either autopsied or non-autopsied): —

Sudden Deaths in State Hospitals.

1914,	69	1918,	117
1915,	85	1919,	77
1916,	74	1920,	84
1917,	83		

The death rate seems to have been higher in the war period than before; it would appear to sympathize with the higher death rate in the world, though probably not connoting the economic loss that the war deaths do.

Analysis, Autopsied Cases (Sudden Deaths).

	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	Total.
Heart lesions,	4	9	13	13	16	5	8	68
Acute infections,	11	13	8	4	9	7	14	66
Foreign bodies in larynx,	3	2	7	2	2	—	5	21
Epilepsy,	1	6	—	5	4	—	—	16
General paresis,	3	1	2	6	1	3	5	21
Homicides,	3	3	3	1	2	—	2	14
Suicides,	3	3	1	3	3	5	5	23
Tuberculosis,	1	2	2	3	2	3	5	18
Fractures,	1	3	1	1	2	7 ¹	2	10

¹ Fracture complicated death.

Analysis, Autopsied Cases (Sudden Deaths) — Concluded.

	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	Total.
Cerebral hemorrhages,	-	-	5	-	1	-	2	8
Thrombosis,	2	-	-	2	-	-	-	4
After tube feeding,	1	-	1	1	-	1	-	4
Burns,	1	1	-	-	-	1	1	4
Hemorrhage,	1	-	1	-	2	-	-	4
Brain tumor,	-	-	2	-	-	2	-	4
Asphyxia,	-	1	-	1	-	-	2	4
Katatonic "Hirntod,"	-	-	1	1	-	-	-	2
Acute mania,	1	-	-	1	-	-	-	2
Collapse after bath,	-	1	-	-	-	-	-	1
Salvarsan,	-	-	-	-	-	2	-	2
Fall,	1	-	-	-	-	-	-	1
Edema, brain,	1	-	-	-	-	-	-	1
Arteriosclerosis,	1	-	-	-	-	1	1	3
Ruptured bladder,	-	-	1	-	-	-	-	1
Carcinoma,	-	-	1	-	2	1	1	5
Drowned (accident),	-	-	-	1	-	-	-	1
Pernicious anemia,	-	-	-	-	1	-	-	1
Acute gastritis,	-	-	-	-	1	-	-	1
Edema, glottis,	-	-	-	-	1	-	-	1
Ruptured spleen,	-	-	-	-	1	-	-	1
Ruptured heart,	-	-	-	-	1	-	-	1
Alcohol,	-	-	-	-	-	1	-	1
Miscellaneous,	-	-	-	-	-	1	7	8
Totals,	39	45	49	45	51	33	60	322

Relative to the mental diagnoses in suicides, we now have 80 on record. Nineteen of these, or 24 per cent, have been dementia præcox cases, following manic-depressive closely.

Suicides in State Hospitals.

1914,	9	1918,	18
1915,	6	1919,	13
1916,	9	1920,	13
1917,	12		

Analysis of Suicides (Autopsied and Non-autopsied).

	1913-14.		1914-15.		1915-16.		1916-17.		1917-18.		1918-19.		1919-20.		Totals.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
Dementia præcox,	1	-	1	-	3	-	2	1	3	4	1	3	-	-	19
Manic-depressive,	-	2	2	2	3	1	2	4	3	3	1	2	6	3	34
General paresis,	-	-	-	1	-	-	-	-	-	-	-	-	2	-	3
Epilepsy,	-	-	-	-	1	-	-	-	1	-	-	-	-	1	3
Diagnosis unknown, ¹	3	3	-	-	1	-	1	1	-	-	2	-	-	-	11
Imbecile,	-	-	-	-	-	-	1	-	3	-	-	1	-	-	5
Psychosis with arterio-sclerosis,	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Alcoholic psychosis,	-	-	-	-	-	-	-	-	-	-	3	-	-	-	3
Constitutional psychopathic inferiority,	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Totals,	4	5	3	3	8	1	6	6	11	7	7	6	8	5	80

Diagnoses in suicides in State hospitals, 80.

¹ Death before a definite mental diagnosis was determined.*Average Number of Persons employed in Medical Service.*

1914,	147.57	1918,	155.65
1915,	146.97	1919,	97.24
1916,	157.48	1920,	96.49
1917,	164.02		

Average Number of Ward Workers employed.

1914,	1,826.72	1918,	1,603.45
1915,	1,924.85	1919,	1,501.48
1916,	1,876.00	1920,	1,253.09
1917,	1,807.91		

III. ROUTINE OF THE PATHOLOGICAL SERVICE: CASUALTIES.

We present seven years' experience in the special analysis of the casualties of the institutions. The casualty records of each institution are analyzed by an analytical chart of casualties in institutions (being Chart G of the Department's pathological charts) under three headings, namely, statistics, nature and severity, and manner of injury.

CASUALTY TABLE A.

Casualties arranged by Institutions.

INSTITUTIONS.	Males.	Females.	Total Number of Patients.	Total Number of Accidents.
Gardner Colony, ¹	23	18	41	44
Medfield Hospital, ¹	15	19	34	37
Danvers Hospital,	12	12	24	24
Taunton Hospital, ²	14	5	19	20
Westborough Hospital,	11	9	20	20
Boston Hospital,	11	8	19	19
Grafton Hospital,	6	10	16	16
Worcester Hospital,	3	11	14	14
Monson Hospital,	7	3	10	10
Wrentham School,	7	3	10	10
Psychopathic Department, Boston Hospital,	6	3	9	9
State Infirmary, mental wards,	1	3	4	4
Massachusetts School for the Feeble-minded,	1	2	3	3
McLean Hospital,	2	1	3	3
Hospital Cottages for Children,	2	—	2	2
Northampton Hospital,	1	1	2	2
Wiswall Sanatorium,	—	2	2	2
Foxborough Hospital,	1	—	1	1
Totals,	123	110	233	240

¹ Two accidents each to three patients.

² Two accidents to one patient.

CASUALTY TABLE B.

Casualties arranged by Institutions and Severity of Injury.

	Fractures.	Dislocations.	Gunshot.	Other Severe Injuries.	Total Severe Injuries.	Less Severe Injuries.
<i>Receiving Institutions.</i>						
Boston Hospital:—						
Main Department,	19	—	—	—	19	4
Psychopathic Department,	1	—	—	—	1	8
Danvers Hospital,	10	1	—	—	11	18
Northampton Hospital,	1	—	—	—	1	1
Taunton Hospital,	8	1	—	—	9	14
Westborough Hospital,	12	—	—	—	12	16
Worcester Hospital,	12	—	—	—	12	5
<i>Institutions chiefly for Transfers.</i>						
Grafton Hospital,	11	—	—	3	14	5
Medfield Hospital,	15	2	—	1	18	20
Gardner Colony,	8	3	—	—	11	37
Foxborough Hospital,	1	—	—	—	1	1
State Infirmery, mental wards,	4	—	—	—	4	1
Bridgewater Hospital,	—	—	—	—	—	—
<i>Institutions for the Feeble-minded.</i>						
Massachusetts School,	2	—	—	—	2	1
Wrentham School,	4	—	—	—	4	6
<i>Special Public Institutions.</i>						
Monson Hospital,	7	—	—	—	7	4
<i>Special Private Institutions.</i>						
Wiswall Sanatorium,	1	—	—	—	1	1
McLean Hospital,	2	—	—	—	2	1
Hospital Cottages for Children,	2	—	—	—	2	—
	120	7	—	4	131	143

CASUALTY TABLE C—*Concluded.**Manner of Injury—Concluded.*

	Boston Hospital.	Danvers Hospital.	Foxborough Hospital.	Gardner Colony.	Grafton Hospital.	Hospital Cottages for Children.	Massachusetts School for the Feeble-minded.	McLean Hospital.	Medfield Hospital.	Monson Hospital.	Northampton Hospital.	Psychopathic Hospital.	Mental Wards, State Infirmary.	Taunton Hospital.	Westborough Hospital.	Wiswall Sanatorium.	Worcester Hospital.	Wrentham School.
Asocial acts:—																		
Of another patient,	4	2	1	3	1	1	1	1	10	1	1	1	1	5	3	1	3	3
Of attendant,	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
Scuffle of patients,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Scuffle with attendant, male,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Scuffle with attendant, female,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Self-defense,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Retaliation,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mayhem,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Poisoning,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Occupational,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Machinery,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Farming,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Other,	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Unavoidable natural causes,	6	3	1	9	5	1	1	1	6	2	1	1	1	1	6	1	7	3

The casualties in the hospitals were the subject of inquiry by the executive officers in 1913 (see 1913 report, pages 59 to 69). Considerable time and thought was given as how best to account for these untoward events in the hospitals day's work, which happen frequently in the care of the insane. It was the opinion of the secretary of the Board, Dr. L. V. Briggs, that an elaborate system of double reports to the Board by the superintendent and to the Board by an assistant from the main office on personal visit would be of psychological value in the reduction of the number and severity of the accidents. This scheme was put into operation in 1914 and has continued. A glance at the graphic chart (casualties) will demonstrate that they have gone down in number gradually and consistently. The personal element in reports has largely been eliminated by every one co-operating in the carrying out of the spirit of the plan.

It will be noted that as the number of ward workers decreases the casualties have decreased. It can be expected that the character of the patients does not materially vary from year to year. There has been no great effort at ward instruction in personal care of patients during the war period, nor has the type of employee been of especially high grade in this time of increased wages for other types of employment and during the time when the able bodied were engaged in fighting a war. The other conclusion is that inactivity, however unmasterly, may sometimes be valuable.

Casualties in State Hospitals.

1914,	346	1918,	221
1915,	320	1919,	208
1916,	304	1920,	240
1917,	237		

IV. INVESTIGATIONS.

This investigative function of the institute could hardly be said to have raised its head under the handicap of the death of the director, E. E. Southard; the day's work and unfinished business incident to the reabsorption of the institute into the hospital activities according to the legislative action which separated the Psychopathic Hospital from the Boston State Hospital has been as much as the depleted forces of the institute staff could manage.

The bulletin has continued its publications with reprinting the papers deemed fitting for this type of journal.

There have been no epidemics in the hospitals this year, though flurries have been present in the irregular claps of diarrhœas.

The peculiar nervous system attack from a disease of unknown origin spreading to the United States from Austria, first appearing there in 1916, called epidemic encephalitis, has caused much concern, the State hospitals receiving from time to time patients that have obscure symptoms referable to the base of the brain. The mortality from this disease is not high, 20 per cent, but it appears to have a legacy in the nervous system presenting symptoms not unlike atypical multiple sclerosis, Parkinson's disease, hysteria or alcoholism. The out-patient clinics will in all probability see cases for a period of some years.

The photography of brains continued during 1920, to have available for quick study one thousand brains. The majority are done, thus insuring permanent record, usable in a comfortable way for consultation, teaching and investigation.

A laboratory and library suite was opened at the Medfield State Hospital in June, 1920. The library is to be used for staff meetings in addition to the library activities. The laboratory is fitted up for the clinical and pathological purposes of the hospital. The superintendent, Dr. E. H. Cohoon, gives full credit to Dr. A. H. Kandib for her energy in producing plans, hunting out equipment, supervising the installation of fixtures and apparatus for the systematic organization of the laboratory. The previous laboratory was opened in June, 1919, at Foxborough.

The laboratory at the institute continues to be a point for instruction of postgraduates and technical aids, Miss Hildegard Cobb, Miss Louise Lawton, Miss Amy Edmunds, Dr. Bernice Bartlett and Dr. M. H. Hirschfeld having spent time in observation and performance.

The following table shows the routine work of the investigative staff of the Department:—

Visits to institutions,	338
By pathologist,	230
By assistant pathologist,	38
By syphilographer,	70
Autopsies in cases of sudden deaths,	54
Severe accidents in institutions,	131
Less severe accidents,	150
Total accidents,	281
Circular letters,	1
Publications,	21

V. PUBLICATIONS.

- "Motion Study of Inoculating Tubes." M. M. Canavan, M.D. Boston Medical and Surgical Journal, Vol. CLXXXIII, No. 4, pp. 103-105, July 22, 1920.
- "The First Thousand Autopsies of the Pathological Service of the Massachusetts Commission on Mental Diseases, 1914-1920." E. E. Southard, M.D., Myrtelle M. Canavan, M.D., Douglas A. Thom, M.D. Proceedings of the American Medico-Psychological Association, Seventy-Fifth Annual Meeting, Philadelphia, Pa., June 18 to 20, 1919.
- "Endocrine Imbalance in the Feeble-minded: Report of One Hundred Autopsied Cases." Oscar J. Raeder, M.D. The Journal of the American Medical Association, Aug. 21, 1920, Vol. LXXV, pp. 527-531.
- "Interim Report on the Neurosyphilis Investigation of the Massachusetts Commission on Mental Diseases." Oscar J. Raeder, M.D. American Journal of Insanity, Vol. LXXVI, No. 4, April, 1920.
- "The Mental Hygiene of Industry. A Movement that Particularly Concerns Employment Managers." E. E. Southard, M.D. The Engineering Foundation, Reprint Series No. 1, February, 1920, Vol. LIX, pp. 100-106. Also in Mental Hygiene, 1920, Vol. IV, pp. 43-64.
- "Morbi Neurales. An Attempt to Apply a Key Principle to the Differentiation of the Major Groups." E. E. Southard, M.D., and H. C. Solomon, M.D. Archives of Neurology and Psychiatry, 1920, Vol. III, pp. 219-229.
- "Trade-Unionism and Temperament. The Psychiatric Point of View in Industry." E. E. Southard, M.D. Industrial Management, April, 1920, Vol. LIX, pp. 265-270. The Engineering Foundation, Reprint, Series No. 2.
- "The Modern Specialist in Unrest: A Place for the Psychiatrist in Industry." E. E. Southard, M.D. Journal of Industrial Hygiene, 1920, Vol. II, pp. 11-19.
- "Transition from Soldier to Civilian." D. A. Thom, M.D. Med. Quart., Ottawa, 1919, Vol. I, pp. 342-347.
- "Amnesias in War Cases." D. A. Thom, M.D., and Norman Fenton. American Journal of Insanity, Vol. LXXVI, No. 4, April, 1920, pp. 437-448.
- "An Out-Patient Clinic in Connection with a State Institution for the Feeble-minded." Walter E. Fernald, M.D. Mental Hygiene, Vol. IV, No. 4, pp. 848-856, October, 1920.
- "Public School Clinics in Connection with a State School for the Feeble-minded." Dr. Edith E. Woodill. Mental Hygiene, Vol. IV, No. 4, October, 1920, pp. 911-919.
- "The Climacteric Period and its Psychoses." Dr. L. E. Duval. American Journal of Clinical Medicine, Vol. XXVII, No. 2, pp. 83-88.

- "Atypical Form of Arteriosclerotic Psychosis." Dr. S. Uyematsu. *Journal of Nervous and Mental Diseases*, Vol. L, No. 6, pp. 513-539, December, 1919.
- "A Case of Myxedematous Psychosis." Dr. S. Uyematsu. *Archives of Neurology and Psychiatry*, Vol. III, No. 3, pp. 252-276, March, 1920.
- "A Case of Diffuse Cerebrospinal Sclerosis." Dr. S. Uyematsu. *Journal of Nervous and Mental Diseases*, Vol. LI, No. 6, pp. 514-533, June, 1920.
- "A Case of Hemangioma Cavernosu of Cerebrum." Dr. S. Uyematsu. *Journal of Nervous and Mental Diseases*, Vol. LII, No. 6, pp. 388-398, November, 1920.
- "Re-Education of Demented Patients." Dr. W. A. Bryan. *American Journal of Insanity*, Vol. LVII, No. 1, July, 1920, pp. 99-111.
- "Epilepsy as Observed in the Army." Dr. Morgan B. Hodskins. *Transactions of the National Association for the Study of Epilepsy*, 1920.
- "Preliminary Report of Twenty-Two Cases of Epilepsy Treated with Luminal." Dr. Harvey M. Watkins. *Transactions of the National Association for the Study of Epilepsy*, 1920.
- "Nervous and Mental Phenomena of Hyperthyroidism." Winfred Overholser, M.D. *The Hahnemannian Monthly*, July, 1920, Vol. LV, No. 7, pp. 401-405.

As this fiscal year closes the writer disappears as assistant pathologist to the Department of Mental Diseases. The appointment was made July 1, 1914, and ended Dec. 1, 1920, seventy-seven months of most interesting and valuable instruction. The by-products of the position in responding to the complex demands of a shifting service, dealing with temperaments as well as lesions, will be of utmost use to the undersigned in whatever the next undertaking may be.

Gratitude is hereby expressed to the Commissioner, Dr. George M. Kline, for unfailing consideration, and to the hospital superintendents and their staffs much good will for their courtesies.

MYRTELLE M. CANAVAN, M.D.,

Assistant Pathologist.

REPORT OF DIRECTOR OF SOCIAL WORK.

To the Department of Mental Diseases.

Following is the third report of this department and the second to cover a full year's work.

The duties of the director of social work are as follows: —

I. To co-ordinate and develop social work, extra and intramural, in State hospitals and schools for the feeble-minded.

II. General supervision of social service departments in institutions connected with the Department of Mental Diseases.

III. Correlation of State hospital social service with that of community agencies.

IV. Correlation of State hospital social service departments with educational institutions and social organizations relative to student training in social work.

Possibly one of the most important duties, potential rather than actual, at the present time is that of guiding or directing the talents and special qualifications of our social workers into channels of the greatest usefulness and of entering sympathetically and helpfully into their difficulties. Stimulation is a very important element in the development of a work which is more or less in the pioneer stage.

GENERAL.

Inasmuch as a general report of social work with mental patients must necessarily be more or less in the abstract, a brief statement as to *principles* and *aims* of psychiatric social work may serve the double purpose of interpreting the nature and scope of the work and of indicating the difficulty of tabulating results.

The chief function of a social service department is *social case work*, which may be defined as the "interweaving of medical treatment and social service based upon personal knowledge of the patient and his environment." The generally accepted essentials of social case work are "knowledge of social conditions, judgment of these conditions, and plans related to social conditions."

Although psychiatric social work often includes general social service, it may be said to differ from it in that it deals with social difficulties that originate in definite mental disorder and defect. This type of social work must therefore include the study of social conditions under which mental patients break down, with a view to relating such conditions to plans which will assist in making it possible for them to live useful and comfortable lives in the community, other things being equal.

From the very beginning of social work in State hospitals, the importance of after-care work has been emphasized. The increasing value of this work is so obviously apparent that a large part of the present social work of the hospital is that of supervision of out-patients. Conduct disorder in the community, being apparently one of the chief reasons for the commitment

of persons to institutions, indicates the necessity of intelligent supervision of out-patients. This work is equally important to patient, community and hospital from scientific, economic, social and humane viewpoints. Supervision work and problems related to adjustment of patients in the community require skill, considerable time and experimentation.

The aims of State hospital social work are as follows: —

(a) To deal with mental patients in their social setting as intelligently and constructively as the doctor deals with them in the hospital.

(b) To assist in the art of rehabilitating and readjusting disordered personalities in such a manner that they may fit into the existing social order.

(c) To contribute to the hospital the social knowledge and technique which it would otherwise lack.

(d) To aid in the simpler forms of preventive work in the field of mental hygiene through case work and other educational methods.

In establishing and developing psychiatric social work in State hospitals the methods employed must relate to the general principles of social work, to hospital needs, to social needs of patients, and to community resources. Following the careful consideration of these factors which, after all, are fundamentally important, a general outline of social work, based upon the above, was prepared and presented to State hospitals with a view to indicating the lines along which the social worker has been trained to render the best service; it was also hoped that such an outline would help to guide State hospital social service into the proper relationship with other forms of community social work.

The divisions of the outline are as follows: —

- I. Social case work. Patients and their families.
- II. Supervision of out-patients. General and special.
- III. History work. Medical and social.
- IV. Investigation. Relative to medical, social or administrative problems.
- V. Out-patient clinic work.
- VI. Educational work. (Social service.)
- VII. Placing and care of boarding patients.

During the past year a gradual change appears to have been taking place in the functions of social work throughout the State in that they are becoming more clearly defined. Formerly

the social work and after-care work appeared to have no constructive basis and no definite outlook, while present conditions indicate a more definite basis and a much broader outlook in the field of psychiatric and general social work. While the above outline is subject to alterations and additions, the present status of social service in our institutions indicates that these kinds of social work are most in demand.

SPECIAL FEATURES.

Until recently there has been no uniform system of social record keeping by which it was possible to analyze social work statistically. This was a real need and one which was more or less difficult to consider because of the varying conceptions of social work in our institutions. To cover the work being done by social workers and after-care workers, and to analyze it according to the generally accepted standards of social work, was not an easy task. However, an outline for monthly statistical social service reports has been arranged and is now in use in the majority of our institutions. For a year or more this system will be considered experimentally, but will doubtless ultimately lead to definite and satisfactory statistical statements of the social service departments of our institutions. Following is a list of the sections contained in the outline of the monthly statistical report. There are various related subdivisions which are not here included.

- I. Total number of cases considered by social service.
- II. Sources of new cases.
- III. Purposes for which cases were considered.
- IV. Medical diagnoses of new cases.
- V. Social problems in all cases.
- VI. Nature of social service rendered in all cases.
- VII. Visits. (Ward, home, agencies, etc.)
- VIII. Out-patient clinic work.
- IX. Boarding patients.
- X. Disposition of social cases.
- XI. Expense account. Conferences, lectures, miscellaneous.

Not only does the monthly statistical report give an idea of the amount and kind of service rendered, but it enables social workers and others to gain a deeper insight into the whole general purpose and trend of State hospital social service.

In order that good teamwork might be accomplished in this field, it was considered advisable to work out a policy relative to

social work that could be used by individual hospitals for reference and for definite assistance in the development of their departments of social work. A general policy was therefore arranged, submitted to the Department of Mental Diseases for their approval and later presented to the various hospitals. It is not for a moment intended that social work in our institutions should be established solely by bureaucratic methods but by a definite policy of co-operation. As co-operation requires active service on both sides, it becomes the function of a person occupying a central position to contribute material collected from various sources and to present it, in a crystallized form, to those who do not have the opportunity to collect data or to study a situation from various angles. The contracts which are made in a central office with persons who are on the front lines of action offer a rich opportunity to gather the vital elements in their experiences, personal viewpoints, successes, failures, or whatever, and to use this material to the best advantage. It was in this spirit that the general policy was arranged and presented to the various institutions.

The main divisions of the policy relate to the following subjects: —

(a) General principles of psychiatric social work in State hospitals.

(b) Social workers: selection, appointment, qualifications, requirements as to education, social training and experience, personality. Grades, salaries.

(c) Student psychiatric social service. Regulations relative to selection and placing of students. Affiliations with educational institutions and social organizations for student social service.

(d) General outline for State hospital social work.

This policy forms the present foundation upon which the structure of State hospital social work is in process of erection. Future developments may require additions or radical changes, — much depends upon the character and growth of the work.

Early in the year a definite plan was formed with the New England Division of the Red Cross relative to the social care of mental soldier patients. The work is being conducted upon a co-operative basis, the main features of the plan being as follows: All matters pertaining to compensation, insurance or family welfare of such patients receive the attention of the Red Cross. Matters pertaining to hospital treatment or after care are considered by the State hospitals and their social service departments; these include medical history work, special investigations

and supervision. Cases requiring both Red Cross and hospital care (social) are considered jointly by these agencies. The plan appears to be working successfully as no complaints have been received to the contrary. In this way our soldier patients are believed to be adequately cared for in hospital and community.

Correlation of institutional social work with that of community agencies is important and desirable from every viewpoint. Splendid co-operation appears to exist between the various hospitals and social agencies. A definite plan has been arranged with the Charity Organization Societies, or Family Welfare Societies, now called, whereby cases, commonly known to hospital and social agency, may be adequately considered without duplication of effort. This plan provides for the registration of clients by Family Welfare Societies at the central office (Department of Mental Diseases); these are referred to the various hospitals and their social service departments. Joint plans for after care or social service are considered in all cases requiring such action. As this work has but very recently been started, there is no definite report to make, except to state that relations between State hospital social work and that of the private agency are gradually becoming established.

CONFERENCE WORK.

Conference work was started in November, 1918. Meetings are held once in three weeks at the State House. The purpose of this work is largely educational and adds very materially to the development of social technique in State hospital social service. These meetings afford an opportunity for our social workers to meet together for the purpose of defining standards, discussing principles and policies of their work, etc. Lectures are occasionally given by physicians and executives from social organizations. Following is a list of conference subjects and speakers for the past year: —

- I. Classification of Social Troubles, Dr. E. E. Southard.
- II. Classification of Social Troubles (continued), Dr. E. E. Southard.
- III. Legal Entanglements, Dr. E. E. Southard.
- IV. Follow-up Work, Miss Hale, Psychopathic Hospital.
Co-operative Work with Red Cross, Miss Hodges.
- V. Syphilis, Dr. H. C. Solomon.
- VI. Social Factors of Syphilis, Dr. H. C. Solomon.
- VII. General Discussion, Director of Social Work.

- VIII. General Discussion of Social Problem Cases, Director of Social Work.
- IX. Occupational Therapy, Dr. W. A. Bryan.
- X. General Discussion of Hospital Social Work, Director of Social Work.
- XI. Joint Conference of Hospital Social Workers and Executives of Charity Organization Societies of State, Mr. Stockton Raymond, General Secretary, Boston Associated Charities.

At this conference, 45 social workers and 5 hospital superintendents were present.

Attendance at conferences for the year: —

Total attendance,	231
Social workers,	154
Student social workers,	29
Physicians,	7
Visitors,	41

The excellent attendance record speaks very favorably for the interest manifested in the conference work.

Following this brief survey of the general scheme and purpose of our State hospital social service and of the principal features of the past year's work is a section relative to the various hospitals and the number of social workers connected with them.

The main divisions of social work in all institutions are practically the same, although the work necessarily varies with the individual needs of each institution and with the degree of development of the social service department connected therewith.

Boston State Hospital: 3 social workers; 2 students in training.

Danvers State Hospital: 2 social workers.

Foxborough State Hospital: 1 social worker; 1 student in training.

Massachusetts School for Feeble-minded: 1 social worker.

Medfield State Hospital: 1 social worker.

Monson State Hospital: 1 social worker (three months).

Northampton State Hospital: 1 social worker.

Psychopathic Department, Boston State Hospital: 4 social workers, 1 research worker; 2 social workers in syphilis clinic connected with Massachusetts Psychiatric Institute, several Smith College and Red Cross students in training.

Taunton State Hospital: 2 social workers; 1 voluntary social worker.

Westborough State Hospital: 1 social worker.

Wrentham State School: 1 social worker.

OFFICE CONFERENCES.

Possibly there is no better opportunity for the intensive work of a director than that obtained through personal conferences, or interviews with the various hospital social workers who come to the office for the discussion of social problem cases, record work, and other departmental activities. These conferences are mutually beneficial for the upbuilding of the work. During the year 107 such conferences have been held. Executives and social workers from outside agencies frequently call for special information relating to social work in which mental factors are involved.

Considerable benefit is derived from occasional interviews with hospital superintendents; the various conceptions of social work in its many phases are interesting and educational, and not infrequently indicate new possibilities of usefulness in the field of psychiatric social service.

Visits to institutions are educational and helpful as well as enjoyable. One is thus brought into close contact with hospital needs as well as with the problems related to social welfare of patients, around which social service is centered. Considerable time (on hospital visits) is devoted to discussion of social record work and to details of departmental work. During the year 15 visits have been made to institutions.

MISCELLANEOUS DUTIES.

Under this section fall the numerous duties incidental to office work, with especial reference to correspondence and to interviewing callers.

As occasion arises matters requiring social consideration are referred by the Department of Mental Diseases for investigation and supervision. During the year 7 cases have been investigated or supervised, according to the need indicated. Cases coming from the outside are referred to hospital social service or to private agencies.

Ten requests for private boarding homes have been made by persons from private agencies. Several homes have been recommended.

In addition to frequent attendance at the local monthly meetings of social organizations interested in medical or general social work, the following conferences have been attended: —

Eleven local conferences, Boston.

Conference of American Medico-Psychological Association, Cleveland, Ohio, June 1 to 5, 1920.

Conference of Association for the Study of the Feeble-minded, Cleveland, Ohio, June 1 to 5, 1920.

Conference of American Hospital Association, Montreal, Oct. 4 to 8, 1920.

The Massachusetts Association of Hospital Social Workers, formed about five years ago, has held three meetings during the year. This organization is for educational purposes only, and the subjects chosen for discussion bear directly upon the educational features of mental hygiene work.

At the request of Dr. Edward T. Devine, associate editor of "The Survey," an article was contributed to that publication in June, 1920, entitled "Social Service with Mental Cases." A short description of the social work in Massachusetts State hospitals was given in this article.

Statements of hospital social work, copies of record outlines, statistical reports, face sheets for social records, etc., have been sent upon request to persons in other parts of the country.

SUMMARY.

General and special activities of this department are concentrated upon the establishment and development of social work, intramural and extramural, in connection with our State institutions. Included in these duties are supervision of social service departments and creation and development of opportunities for more intensive psychiatric social work in connection with mental patients. One of the more important duties, a privilege rather than a duty, is that related to personal conferences with individual social workers with a view to directing their talents, or special qualifications, natural or acquired, into channels of the greatest usefulness. Stimulation is often quite as necessary as direction, and is frequently sought by workers who need some suitable person with whom their particular problems may be helpfully discussed.

The results of social work with mental patients being difficult to determine statistically, statements as to general principles, policies, etc., herein given, are helpful in giving an insight into the general scheme and scope of the work which must be considered from social, economic, scientific and humane viewpoints.

Some of the principal features of the past year's work, briefly reviewed, are as follows: —

Arrangement and adoption of a general policy relative to State hospital social work.

Forms for monthly statistical reports of the various State hospital social service departments and a system of record keeping which will make such reports possible.

Face sheets for social service records.

Development of the conference work at the State House is considered a marked feature of the year's work from the viewpoints of education and development of social technique.

Arrangements have been made with the Smith College Training School for Social Work, with the New England Division of the Red Cross and with the Simmons College School of Social Work for student service. The increasing number of applicants for positions in our social service departments and for student and volunteer service indicate something of the progress of the work, although an awakened social conscience in regard to matters pertaining to public health is an important factor to be considered.

Higher standards, which are constantly under consideration, will eventually aid in placing our social work on a par with the work of private social agencies and will, we trust, serve to attract the best-equipped persons to the service.

In the section on State hospitals, social workers, etc., it is interesting to note the increase in the number of social workers in State service. Last year's report gave the total as 16 persons; this year 23 social workers have been in the service, an increase of 7 over the previous year. Five resignations have taken place, making a total of 18 persons in active service. In addition to salaried workers, there are 11 students in training and 1 volunteer social worker.

Miscellaneous duties of the department, although varied, have a definite bearing upon the general development of State hospital social service. The correlation of agencies engaged in public and private social work (if social work can be public or private) is an important and growing feature of the work of this department.

A retrospective view of the year's work is most encouraging from the standpoints of character and growth of our social service departments; better technique and increasing interest on the part of hospital officials and outside agencies are noted.

The splendid support given by the Commissioner and hospital superintendents, and the wholesome attitude manifested toward the extension and development of social work in Massachusetts State hospitals are contributing toward, if not creating, a spirit of optimism and enthusiasm which are vitally essential to work which at best is difficult and draws heavily upon the personality of individual social workers.

The loyalty of our social workers during the past year has been almost phenomenal; attractive positions in other fields of service have been frequently offered to many of our social workers; these offers carried much larger salaries and greater opportunities for self-development. The friendly spirit of co-operation between hospital social workers and their director is a very important feature in the development of the work as a whole.

At the close of the year's work with its various degrees of success and fulfillment of plans and ideals, one is generally impressed with certain outstanding features which indicate growth or retardation.

The need of further education in the field of social psychiatry for persons engaged in psychiatric social service appears to be commonly felt by those who are in active service. It is possible that a course of lectures and prescribed reading may be arranged for the coming year to meet this need. If possible, this service will be extended to students in training and others who are engaged in mental hygiene work.

As social service exists for the social welfare of mental patients and has a special bearing upon their community life, closer and more clearly defined methods of co-operative service between State hospitals, industrial concerns and social agencies are necessary.

The increasing demands for trained social workers in this field, made by superintendents of Massachusetts institutions and those of other States, apparently indicate that this service is of recognized worth and more or less indispensable to the adequate care and treatment of mental patients in State hospitals. The demand for such workers at present greatly exceeds the supply, hence the need of creating facilities for student and volunteer training in our State hospitals.

Massachusetts is apparently considered a leader in the field of psychiatric social service. This leadership obviously carries with it responsibilities relative to organization and function; education

and training of psychiatric social workers; the establishment of policies and standards that will lead to the development of social welfare for mental patients within the Commonwealth or elsewhere.

Respectfully submitted,

HANNAH CURTIS,

Director of Social Work.

REPORT OF THE ACTIVITIES OF THE NURSES TRAINING SCHOOL COMMITTEE FOR THE YEAR 1920.

The Committee on Training Schools respectfully submit the following report covering its activities for the year 1920: —

The usual number of meetings of the committee have been held, and, at two of these, superintendents of nurses from the training schools under the Department of Mental Diseases were present by invitation. No changes were made in the present curriculum as it was felt that the present course of study meets our needs and complies with the requirements of the Department of Registration.

The course for male attendants has not yet been formally revived, but the increase in the number of attendants available makes it probable that such revival may be brought about soon.

Minor changes were made in the uniform worn by the undergraduates and attendants. The cap was abolished for the latter and the bib on the apron permitted. Half length sleeves were adopted.

The following resolution was unanimously adopted by the committee: For purposes of organization, the assistant superintendent of nurses should assist the superintendent of nurses in her direction of the training school and in her absence assume the duties of the superintendent of nurses, and should for that reason rank higher than supervisors and receive more pay.

During the year two superintendents of training schools were appointed by the State League of Nursing to serve on a committee relative to a program for the following year. Miss Margaret Fallon of the Boston Psychopathic Hospital and Miss Emily Carden of the Medfield State Hospital were nominated.

Requests for affiliation from a number of smaller hospitals continue to reach the committee, but the present affiliations of the various schools are very satisfactory and no change has been

made. In this connection it should be noted that there has been a slight increase during the year of the number of applicants to enter the training schools. Economic conditions in the community have tended to increase undergraduates to more nearly a normal number.

A conference was held during the year with the Department of Registration relative to certain legislation then pending. No radical change in the nursing laws has been made but there is a definite feeling in the nursing profession that the present requirements should be raised. This committee is unalterably opposed to such a change at this time.

Respectfully submitted,

WM. A. BRYAN,

Secretary.

REPORT OF OUT-PATIENT CLINICS FOR THE YEAR ENDING NOV. 30, 1920.

	Worcester Hospital.	Taunton Hospital.	Northampton Hospital.	Danvers Hospital.	Westborough Hospital.	Boston Hospital.	Grafton Hospital. ¹	Medfield Hospital. ²	Gardner Colony.	Bridgewater Hospital.	Monson Hospital.	Foxborough Hospital.	Massachusetts School for Feeble-minded.	Wrentham Hospital.	Totals.
Sources of first visits to clinics:—															
Referred by physicians,	14	4	34	—	7	134	—	—	55	2	19	—	81	1	351
Referred by other hospitals,	1	—	10	—	—	100	—	—	—	1	3	—	16	—	131
Referred by charitable and other organizations,	6	8	29	—	—	368	—	—	32	1	6	—	68	1	519
Referred by courts,	1	—	21	—	—	49	—	—	1	—	—	—	13	2	87
Referred by schools,	44	87	21	—	—	62	—	—	12	—	2	—	241	71	540
Referred by patients,	6	—	3	—	—	94	—	—	—	—	—	—	—	—	103
Came by own initiative,	5	—	13	—	—	111	—	—	—	—	4	—	—	—	167
Came by initiative of relatives,	—	1	10	1	2	—	—	—	2	—	—	—	41	—	69
Cases discharged reporting for first time,	69	44	183	104	—	111	—	—	1	—	—	14	—	—	536
Miscellaneous and unknown,	1	—	—	3	26	135	—	—	—	1	4	—	18	—	188
Total number of first visits to clinics,	147	144	334	108	69	1,164	—	—	103	5	50	14	478	75	2,691
Other than first visits,	365	222	237	280	74	3,676	—	—	3	—	3	24	83	4	4,951
Total number of all visits,	512	366	571	368	143	4,840	—	—	106	5	53	38	561	79	7,642
Advice given by letter and telephone,	—	—	—	—	—	—	—	—	—	—	—	—	343	—	343

¹ No out-patients since Dec. 1, 1919.² No clinic.

COMMITMENTS FOR OBSERVATION AND TEMPORARY
CARE FOR THE WHOLE STATE.

The number of commitments for observation (under section 43, chapter 504, Acts of 1909) was 217 for the year. The period designated by the judges in the various cases was usually thirty days. .

Of these cases, 133 were subsequently committed, 50 were discharged, 5 were admitted voluntarily, 2 escaped, 11 died, and 16 were remaining at the close of the year.

Under chapter 307 of the Acts of 1910, requiring that emergency cases which come into the care or protection of the police in Boston be taken to the Boston State Hospital for temporary care, and forbidding the use of prisons, jails or penal institutions for such persons, 269 were taken to the Psychopathic Department of the Boston State Hospital. Of these, 79 were subsequently regularly committed to the Boston State Hospital, 61 were committed to other institutions, 110 were discharged, 4 were admitted voluntarily, 8 were committed for observation, 3 died, and 4 cases were remaining at the close of the year.

There were 8 admissions under section 34, chapter 504 of the Acts of 1909, which provides for the apprehension of a patient before examination and commitment; 3 of these were subsequently committed and 3 discharged, 1 was committed for observation, and 1 remained at the close of the year.

	ADMISSIONS UNDER —						
	Section 34, Chapter 504, Acts of 1909 (Apprehension of Alleged Insane Person).	Section 43, Chapter 504, Acts of 1909 (for Observation).	Chapter 307, Acts of 1910 (for Temporary Care, Boston Hospital).	Chapter 174, General Acts of 1915 (for Temporary Care).	Section 45, Chapter 504, Acts of 1909 (for Voluntary Care).	Section 42, Chapter 504, Acts of 1909 (for Care in Emergency).	Chapter 142, General Acts of 1918 (Army and Navy).
Admitted during year,	8	217	269	1,981	641	33	23
Discharged,	3	50	110	637	395	2	3
Discharged to Immigration Commission.	-	-	-	-	-	-	-
On visit,	-	-	-	-	39	-	1
On escape,	-	2	-	-	2	-	-
Died,	-	11	3	40	14	1	-
Regularly committed,	2	133	79	885	48	27	17
Committed for observation,	1	-	8	29	1	-	-
Readmitted under chapter 174,	-	-	-	-	5	-	-
Admitted as emergency,	-	-	-	16	-	-	-
Admitted voluntarily,	-	5	4	86	-	1	1
Returned to institutions,	-	-	-	2	-	-	-
Transferred to other institutions,	-	-	-	-	2	-	-
Committed to other institutions,	1	-	61	251	-	2	-
Voluntary to other institutions,	-	-	-	3	6	-	-
Non-mental at private institutions,	-	-	-	1	-	-	-
Remaining Sept. 30, 1920,	1	16	4	31	129	-	-
Readmitted under chapter 142,	-	-	-	-	-	-	-

Under chapter 174 of the General Acts of 1915, allowing the admission of patients for ten days for temporary care, 1,981 cases were admitted, of whom 1,136 were subsequently committed, 29 were committed for observation, 637 were discharged, 89 were received under the voluntary status, 2 were returned to institutions, 16 were readmitted as emergency cases, 40 died, 1 became a non-mental patient at a private institution, and 31 were remaining at the close of the year.

There were 33 emergency admissions under section 42, chapter 504, Acts of 1909, of whom 29 were regularly committed, 1 was admitted voluntarily, 2 were discharged, and 1 died.

Under chapter 142, General Acts of 1918 (Army and Navy), there were 23 admissions, of whom 17 were regularly com-

mitted, 1 was admitted voluntarily, 1 was on visit, and 4 were discharged.

Voluntary admissions numbered 641, of whom 48 were regularly committed, 395 were discharged, 39 allowed to go on visit, 2 escaped, 14 died, 1 was committed for observation, 5 were admitted under chapter 174, General Acts of 1915, 6 went voluntarily to other institutions, 2 were transferred to another institution, and 129 were remaining at the close of the year.

It is to be noted with interest that during the year covered by the report there were 614 voluntary admissions, 1,981 under chapter 174, General Acts of 1915, and 269 under chapter 307, Acts of 1910, making a total of 2,887 patients who were admitted without any action of the court or judge or other very formal proceeding. Of these 2,887 cases thus admitted, 1,146 were discharged without commitment, 57 died before commitment, 100 signed voluntary requests, and 129 voluntary patients continued their stay in the voluntary status, no commitment being considered necessary, making a total of 1,432 persons who secured the benefits of treatment in our public or private hospitals for the insane without the formality of procedure before a judge, which would have been attended with delays, legal exactions, semi-publicity and the stigma of having been pronounced insane, all of which was thus obviated to the comfort and satisfaction of the patients and friends.

THE STABILITY OF SERVICE

in the institutions averages about the same as the previous year. There were 3.32 rotations of all employees, compared with 2.78 rotations the previous year; 4.18 in the nursing staff, compared with 3.34 the previous year. The maximum stability for the whole service was at the Foxborough Hospital, where there were 2.57 rotations; and for the nursing staff, at the Northampton Hospital, where there were 2.93 rotations.

The average length of the interval between rotations of all employees was 3.65 months; of all nurses, 2.90 months.

The average shortage of employees was 29 per cent.

Rotation in Service of Persons employed in Institutions during the Fiscal Year ending Nov. 30, 1920 — Concluded.

INSTITUTIONS.	FEMALE WARD SERVICE.			TOTAL WARD SERVICE.			WHOLE SERVICE.		
	Average Number of All Nurses.	Number of Different Persons employed.	Rotations.	Average Number of All Nurses.	Number of Different Persons.	Rotations.	Average Number of All Em-employees.	Number of Different Persons employed.	Rotations.
The insane:—									
Worcester Hospital,	75	223	2.97	149.0	682	4.57	297	1,073	3.61
Taunton Hospital,	40	142	3.55	75.0	312	4.16	175	470	2.68
Norhampton Hospital,	21	51	2.42	44.0	129	2.93	117	314	2.68
Danvers Hospital,	53	135	2.54	118.0	358	3.03	243	641	2.63
Westborough Hospital,	50	180	3.60	101.0	575	5.42	216	905	4.18
Boston Hospital (including Psychopathic Department),	106	325	3.06	191.0	821	4.29	395	1,396	3.53
Grafton Hospital,	40	157	3.92	85.4	438	5.12	200	740	3.70
Medfield Hospital,	70	246	3.51	127.0	679	5.34	256	1,075	4.19
Foxborough Hospital,	21	60	2.85	46.0	149	3.23	117	301	2.57
Gardner Colony,	26	77	2.96	56.0	253	4.51	136	431	3.16
Totals and averages,	502	1,596	3.17	992.4	4,396	4.42	2,152	7,346	3.41
Miscellaneous:—									
Monson Hospital,	29	88	3.03	70	253	3.61	154	524	3.40
School for Feeble-minded at Waltham,	52	141	2.71	121	359	2.96	229	641	2.79
Wrentham School,	43	149	3.46	70	236	3.37	149	414	2.77
Totals and averages,	124	378	3.04	261	848	3.24	532	1,579	2.96
Aggregates,	626	1,974	3.15	1,253.4	5,244	4.18	2,684	8,925	3.32

THE CAPACITY FOR PATIENTS

in all the institutions Dec. 1, 1920, was 17,964, compared with 17,514 the previous year, an increase of 450 beds. The whole number of patients on Dec. 1, 1920, was 18,599, compared with 18,246 the previous year, an increase of 353. There is, however, a deficiency of provision for 635 patients, or 3.53 per cent.

THE CAPACITY FOR THE INSANE

in State institutions Dec. 1, 1920, was 14,174, an increase of 450 beds. The whole number of patients on Dec. 1, 1920, was 14,756, as compared with 14,507 the previous year, an increase of 249. There is, however, a deficiency of provision for 582 patients, or 4.10 per cent.

Work was in progress at the close of the year providing accommodations for 490 beds for the feeble-minded. There were no buildings for patients of the mentally ill type under construction.

Working Capacities of Institutions.

INSTITUTIONS.	MALES.		FEMALES.		TOTALS.	
	Dec. 1, 1920.	Increase for the Year.	Dec. 1, 1920.	Increase for the Year.	Dec. 1, 1920.	Increase for the Year.
The insane:—						
Worcester Hospital,	1,116	61	938	—	2,074	61
Taunton Hospital,	611	—	605	—	1,216	—
Northampton Hospital,	426	—	392	—	1,818	—
Danvers Hospital,	665	—	870	11	1,535	11
Westborough Hospital,	496	221	643	—	1,139	221
Boston Hospital (including Psychopathic Department),	868	211	1,046	127	1,914	338
Grafton Hospital,	587	—	563	4	1,150	4
Medfield Hospital,	637	—	903	—	1,540	—
Gardner Colony,	507	10	251	—	758	10
Foxborough Hospital,	175	—	274	37	449	37
Mental wards, State Infirmary,	177	—	496	—	673	—
Bridgewater Hospital,	908	90	—	—	908	90
Totals,	7,173	283	7,001	167	14,174	450
Miscellaneous:—						
Monson Hospital (sane and insane),	547	—	420	—	967	—
School for Feeble-minded at Waltham,	956	—	542	—	1,498	—
Wrentham School,	538	—	787	—	1,325	—
Totals,	2,041	—	1,749	—	3,790	—
Aggregates,	9,214	283	8,750	167	17,964	450

1 Decrease.

Working Capacities of Institutions — Concluded.

INSTITUTIONS.	NUMBER OF PATIENTS IN INSTITUTIONS Nov. 30, 1920.			Increase for the Year.	EXCESS OF PATIENTS.			
	Males.	Females.	Totals.		Number of Males.	Number of Females.	TOTALS.	
							Number.	Percentage.
The insane:—								
Worcester Hospital,	1,005	990	1,995	454	111 ¹	32	79 ¹	3,800 ¹
Taunton Hospital,	628	657	1,285	28 ¹	17	52	69	5,670
Northampton Hospital,	495	498	993	12 ¹	69	106	175	21,390
Danvers Hospital,	674	866	1,540	34	9	4 ¹	5	325
Westborough Hospital,	520	761	1,281	14 ¹	24	118	142	12,460
Boston Hospital,	803	1,012	1,815	92	65 ¹	34 ¹	99 ¹	5,170 ¹
Grafton Hospital,	687	732	1,419	385 ¹	100	169	269	23,390
Medfield Hospital,	605	927	1,532	21 ¹	32 ¹	24	8 ¹	519 ¹
Gardner Colony,	508	318	826	21	1	67	68	8,970
Foxborough Hospital,	253	257	510	56	78	17 ¹	61	13,580
Mental wards, State Infirmary,	216	518	734	35	39	22	61	9,060
Bridgewater Hospital,	826	—	826	1 ¹	82 ¹	—	82 ¹	9,030 ¹
Totals,	7,220	7,536	14,756	249	47	535	582	4,106
Miscellaneous:—								
Monson Hospital (same and insane),	469	488	957	32	78 ¹	68	10 ¹	1,034 ¹
School for Feeble-minded at Waltham,	971	653	1,624	44	15	111	126	8,411
Wrentham School,	510	752	1,262	28	28 ¹	35 ¹	63 ¹	4,750 ¹
Totals,	1,950	1,893	3,843	104	91 ¹	144	53	1,390
Aggregates,	9,170	9,429	18,599	353	44 ¹	679	635	3,530

¹ Decrease.² Includes Psychopathic Department.

THE PUBLIC INSTITUTIONS.

WORCESTER STATE HOSPITAL.

Opened in January, 1833. Present capacity, 2,074.

Valuation of the plant, per capita of capacity, \$1,362; real estate, \$1,237; personal, \$125.

Daily average number of patients on books, 2,238; in hospital, 1,914; in family care, 29; on visit or escape, 295.

Number on books Oct. 1, 1920, 2,271; in hospital, 1,971; in family care, 25; on visit or escape, 275.

All admissions, 531.

Admissions as insane, exclusive of temporary-care cases, 490.

First cases of insanity, 371.

Voluntary admissions, 16.

Temporary-care admissions, 153.

Finances.

Expenditures from maintenance funds, \$677,296; total receipts, \$95,121, being \$41,512 from private patients, \$47,868 from reimbursing patients, \$5,741 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.42

Weekly per capita cost of whole service, \$2.07; ward service, \$0.84.

One person employed for every 6.69 patients; 1 nurse for every 13.29 patients.

Average monthly wage for all persons employed, \$60.91; for nurses, \$49.09; male ward service, \$49.13; female ward service, \$49.05.

Extract from Trustees' Annual Report.

The help situation has been critical at the hospital as elsewhere, but relief seems to be in sight. Many patients have helped materially in alleviating the shortage. Better salaries should be available, however, to increase efficiency. All departments are in operation, and the various members of the staff have been faithful to the trust imposed upon them. The trustees thank one and all.

It is most fitting to mention the resignation of Miss Georgie A. Bacon of Worcester, chairman of the Board, who has served since 1911, and of Mr. Donald Gordon of Boston, secretary of the Board, who was elected in 1915. Both members were valuable to the hospital, and will be greatly missed by their co-workers.

*Extract from Superintendent's Annual Report.**Occupational and Industrial Therapy.*

We were fortunate to secure the services of Miss Mary M. Caton on Nov. 1, 1920, as head occupational therapist. For nearly two years she was in the United States Army, engaged in reconstruction and occupational work.

The arrangement of the work in this department as organized at the present time consists of three main divisions, — arts and crafts, diversional activities, and re-education or habit forming.

The vocational instructor consults with the physicians relative to the early selection of cases and the type of work best suited to the patient. Many of the patients go to the male and female industrial rooms, and classes are also held on the various wards; among the acute cases this requires much individual attention. Idleness is even more conducive to mental, moral and physical deterioration in the individual who is mentally deranged than in the person with a normal psychological rating. Wholesome exercise and employment, which serves to stimulate the functions of the body, is an essential requisite for all beings.

Training School.

The administrative duties and guidance of the work in the school has continued under the successful supervision of Mrs. Elsie I. Richards, who has experienced difficulties at times, owing to the lack of qualified applicants to fill vacancies, and our inability to offer sufficient inducements to retain many of our graduates in the service. All members of the intermediate class were sent to the Boston City Hospital for their affiliating work, and the curriculum somewhat increased.

A class of 7 seniors was graduated Oct. 30, 1920.

Employees.

The general prosperity of the country, which made it possible during the early part of the year for the more desirable persons to obtain work that was more congenial and better paid, led to much difficulty in obtaining a sufficient number of employees to properly carry on the work of the different departments. There was an average shortage during the year of 26.2 per cent, but the situation was the most acute during the month of June, when there was only 65.1 per cent of our normal quota of employees on the pay roll. A gradual increase in the amount of work and our inability to fill vacancies made the burdens of the clerical force unusually hard. Although quite a material increase in wages was made by the adoption, the first of June, of the new schedule recommended by the Department of Mental Diseases, but little relief was experienced until the beginning of the business recession which is now making itself felt. This, together with the approach of winter, has made it possible to exer-

cise more care in the selection of the applicants for positions, with a corresponding improvement in discipline and the character of the services rendered.

Farm and Garden.

Although our head farmer was seriously handicapped during the spring and early summer by the extreme shortage of labor, which could not be entirely compensated by increasing the number of patients employed in that department, the year has been a successful one. Owing to the dry season, and perhaps to some lack of sufficient care, the ensilage and potato crops were below normal. There were \$14,076.57 worth of garden produce raised; \$7,662.50 of hay, ensilage and green fodder; and 1,064 bushels of sweet corn. The dairy herd produced 364,393 quarts of milk and 8,967 pounds of beef; 25,976 pounds of pork were dressed. The poultry department furnished the institution with 2,755 pounds of dressed fowl, 45,939 eggs, and 56 pounds of duck. The cattle were tested for the presence of tuberculosis this fall by a representative of the Bureau of Animal Industry, and those condemned disposed of. About 2 acres of land were cleared. A ditch about 700 feet long was dug to drain a section of the large field on Belmont Street, and a large trench, 2½ feet wide and over 5 feet deep, extending from Plantation Street to and back of the hospital, a distance of 1,800 feet, for our additional water supply, was dug by disturbed male patients under the supervision of two attendants.

Repairs and Improvements.

The results of the reorganization and consolidation of the various units of the repair department made last year have been satisfactory from both an economical and efficient point of view. The renovation and remodeling of Wheeler Cottage No. 2, so that it will furnish very desirable accommodations for two of our employees and their families, is nearly completed. A milk room and pasteurizing plant have been built and are now ready for the installation of the machinery. The dormitory at our Hillside Farm was painted outside and inside, the farm house inside and also the new hog house. Four wards at the main building were painted, and all the toilets, bathrooms and clothes rooms in the Appleton section. The iron grill work and woodwork of the Woodward roof exercise space were repaired and painted, also two automobiles and two trucks. An electric motor was installed in place of the old gasoline engine for the pump at Hillside Farm. During the month of April all useful laundry machinery and equipment was removed from the Summer Street Department and installed at the main hospital, where all laundry operations are now carried on. Individual motors were installed for the bread and cake mixers in the bakery, and for the potato peeler, meat chopper and ice-cream freezer. The governor wheel of one of the engines was rebored, the settings of 7 boilers were repaired and a new boiler feed pump installed. In addition, a large amount of repair work has been done on the wards and various departments of the institution by the carpenters, painters, steam fitter, mason, plumbers and electrician.

The severe weather of last winter made it necessary to make quite extensive repairs on the slate, valleys, metal vents, skylights, copings, etc., of the roofs of the various buildings.

With the exception of the steam fitting, plumbing, electric wiring and painting done by the hospital mechanics, the work of building the addition and making alterations on the laundry, for which a special appropriation was received, was let to a general contractor, and I am pleased to report is well under way to completion.

The new cottage for 30 patients at Hillside Farm was occupied early in the year.

TAUNTON STATE HOSPITAL.

Opened in April, 1854. Present capacity, 1,216.

Valuation of the plant, per capita of capacity, \$824; real estate, \$647; personal, \$177.

Daily average number of patients on books, 1,545; in hospital, 1,311; in family care, 26; on visit or escape, 208.

Number on books Oct. 1, 1920, 1,509; in hospital, 1,276; in family care, 25; on visit or escape, 208.

All admissions, 436.

Admissions as insane, exclusive of temporary-care cases, 402.

First cases of insanity, 328.

Voluntary admissions, 7.

Temporary-care admissions, 154.

Finances.

Expenditures from maintenance funds, \$471,537; total receipts, \$51,884, being \$23,003 from private patients, \$25,329 from reimbursing patients, \$3,552 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.65.

Weekly per capita cost of whole service, \$2.07; ward service, \$0.66.

One person employed for every 7.63 patients; 1 nurse for every 17.80 patients.

Average monthly wage for all persons employed, \$69.90; for nurses, \$52.32; male ward service, \$52.29; female ward service, \$52.37.

Extract from Trustees' Annual Report.

After a great calamity it is usually noted that the full extent of the damage done is not apparent until some time has elapsed. The aftermath of the great war has emphasized this fact of common observation to a painful degree. In last year's report we noted the great difficulties

under which this hospital, in common with the other State hospitals, was laboring. During the year past some of these difficulties, as far as our particular institution is concerned, were increased rather than otherwise. The labor shortage during the year was even more acute than during the previous year, affecting all departments, but especially the medical staff, the ward service and the farm service, naturally resulting in lessened efficiency and less satisfactory results. At the present time more labor is available, and our quota in the different departments is slowly filling up. Therefore we hope for and expect general improvement in the year to come.

We are pleased to be able to note that our training school for nurses, though still working under great difficulties, made substantial improvement over the work of the year previous, and that Mrs. Ella S. Averill, who has been acting superintendent of nurses for nearly two years, fairly earned her promotion to the position of superintendent of nurses. During the perplexities and trials incident to the war and post-war periods the influence of our training school, although crippled, has been one of the strongest forces counteracting the degenerating tendencies of the prevailing conditions. We have also reason to believe that the training schools in the other State hospitals have been similarly helpful in their respective institutions. In former reports we have recorded the services rendered to our country during the war by those trained in our training schools. We therefore view with regret and apprehension contemplated changes in requirements that will hamper and perhaps destroy these schools. Not only the suffering inmates of the State hospitals but the people at large need the services of the nurses trained in these schools as never before.

Extract from Superintendent's Annual Report.

During the year we had 63 cases of tuberculosis, — 27 men and 36 women, — with 26 deaths; 15 cases of erysipelas, — 14 men and 1 woman, — with 2 deaths. One woman had scarlet fever and recovered. Five nurses had diphtheria and all recovered. During the summer typhoid fever broke out on West Group No. 8, 10 cases in all, — 8 patients and 2 nurses. Of these, 1 patient died. The outbreak was traced to an attendant who had been engaged a short time before, who proved to be the carrier. Doubtless we would have had more cases had not all patients and employees been subjected to anti-typhoid vaccination. We had a few cases of influenza, most of them of the mild type without complications. Two cases of the more severe type died.

Forty-six patients had glasses fitted, of which number 12 were fitted by outside oculists.

The dentist's report is as follows: Whole number of cases treated, 509; sets of teeth cleaned, 269; teeth extracted, 327; teeth filled, 71; teeth treated, 21; sets of false teeth made, 2; sets of false teeth repaired, 10.

Three hundred and seventy-nine patients — 234 men and 145 women — have had parole of the grounds.

Twelve hundred and two patients, or 59.71 per cent of the whole number under treatment, engaged in some form of employment.

The organized indoor industries for men have continued under the same management as for many years. The work accomplished in the shoe shop, superintended by Mr. Barr, is as follows:—

SHOE SHOP.

2,583 yards toweling woven.

<i>Made.</i>		<i>Repaired.</i>	
Men's (pairs),	568	Shoes sewed,	502
Women's (pairs),	51	Shoes patched (pairs),	748
Slippers (pairs),	53	Taps sewed (pairs),	474
Moccasins (pairs),	105	Taps nailed (pairs),	1,506
		Leather heels (pairs),	287
		Rubber heels (pairs),	4,083

The work accomplished in the tailor shop, superintended by Mr. Valdez, is as follows:—

TAILOR SHOP.

<i>Articles Manufactured.</i>		<i>Articles Repaired.</i>	
Coats,	107	Coats repaired and pressed,	10,991
Vests,	15	Pants repaired and pressed,	10,949
Pants,	168	Vests repaired and pressed,	4,247
Suspenders (pairs),	760		
Rugs (woven),	271		

Our training school for nurses again successfully struggled through a very hard year. The shortage of nurses and pupil nurses due to war and post-war conditions was the greatest of any year since the war broke out in 1914. As a result there was a much smaller junior class, and all pupil nurses had to do their school work carrying a greater than normal load of general hospital duties. In spite of all this, however, the school made a much better showing than the previous year. Mrs. Ella S. Averill, assistant superintendent of nurses, who has successfully conducted the school during the year past, was promoted to the position of superintendent of nurses, and we hope that she may spend many useful years laboring with us.

In this work, however, it is most discouraging when we have to contend (as is the case at the present time) with unnecessary and untimely requirements, threatened at the same time with hostile legislation. Should the result be the abolishing of the State hospital training schools, not only will all the insane wards of the State be cared for by less competent and inadequately trained attendants, but the people of the State at large will be deprived of the services of a large body of practically trained nurses, the most useful and efficient class for the majority of cases. Let us hope that this dire calamity and disastrous step backward may be averted.

NORTHAMPTON STATE HOSPITAL.

Opened in August, 1858. Present capacity, 818.

Valuation of the plant, per capita of capacity, \$1,520; real estate, \$1,240; personal, \$280.

Daily average number of patients on books, 1,235; in hospital, 1,008; in family care, 16; on visit or escape, 211.

Number on books Oct. 1, 1920, 1,219; in hospital, 975; in family care, 10; on visit or escape, 234.

All admissions, 446.

Admissions as insane, exclusive of temporary-care cases, 426.

First cases of insanity, 332.

Voluntary admissions, 17.

Temporary-care admissions, 188.

Finances.

Expenditures from maintenance funds, \$350,514; total receipts, \$83,492, being \$43,096 from private patients, \$35,380 from reimbursing patients, \$5,016 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.51.

Weekly per capita cost of whole service, \$2 07; ward service, \$0.58.

One person employed for every 8.59 patients; 1 nurse for every 22.97 patients.

Average monthly wage for all persons employed, \$78.34; for nurses, \$59.40; male ward service, \$58.38; female ward service, \$60.48.

Extract from Trustees' Annual Report.

The condition of overcrowding mentioned in every annual report for many years has continued and cannot be relieved till definite measures are taken to increase our accommodations in some such manner as urged by us in former reports. In connection with this we mention the project of establishing in the western part of the State a hospital for the examination and observation of nervous and mental cases pending the determination of commitment to the State hospital. This has already met with the approval of the Department of Mental Diseases, and in a way has had the sanction of a former Legislature. This project may well await a more favorable time when the care of its dependents is not so great a burden to the State, but we wish to keep the matter before the public, and hope the day may not be too far in the future when the project may become an accomplished fact.

Extract from Superintendent's Annual Report.

All the routine activities of the hospital were conducted as usual, but under great stress, due to an extreme shortage of help in all departments. With a quota of 223 employees allowed us the average number on our pay roll throughout the year was only 127 and at times there were less than 100. Every one did extra duty. On the wards and in some other departments patients were given keys and conducted themselves as well as the employees, so well, in fact, that eight patients were placed on the pay roll.

Our social service work was curtailed somewhat by one of our helpers leaving the service in June, but was continued under Dr. Whitney. A brief report of the work is as follows:—

Fewer patients than usual were placed in family care. Families that otherwise would have been glad to receive patients could not afford to board them at the rate we were allowed to pay, and for the same reason some of the patients who had been in family care for years were returned to the hospital.

The clinics at Springfield, Greenfield, Pittsfield and North Adams were continued as usual. These have met with great public approbation, and have served to increase public confidence in the institution.

The number of inquiries at the clinics were 121 men and 116 women, a total of 237; patients reporting, 97 men and 96 women, a total of 193; consultations, 26 men and 30 women, a total of 56. Consultations other than at the clinics numbered 14 men and 26 women, a total of 40. Besides the above we examined 45 feeble-minded children, — 28 male and 17 female.

Our dentist resigned on September 10, after which those patients most in need of treatment were sent to dentists in town. At the time of his leaving, the following dentistry had been done by him: extracting, 678; prophylaxis, 262; pyorrhœa, 15; alloy filling, 437; enamel filling, 196; cement filling, 6; gold crowns, 8; porcelain crowns, 5; bridgework, 9; upper rubber plates, 18; lower rubber plates, 17; partial plates, 5; lancing of abscess, 37; repair of bridgework, 1; repair of plates, 18; root amputation, 6.

The training school work has continued as usual, though there were but few pupils in our classes. Three nurses were graduated. To our gratification they have preferred to remain in our service. Five pupil nurses are now taking the affiliating course at Tewksbury State Infirmary. The new class just beginning numbers five.

The standards of the training schools in the State institutions are being raised to meet the requirements for registration in any State in the Union. For this reason our classes for the present are likely to be small. There is such great demand for pupil nurses in general hospitals everywhere that young women with a sincere desire for training have no difficulty in finding places open to them in the general hospitals, the nature of our service making State hospitals second choice.

The farm report shows the results of the year's work to have been very variable and in some respects disappointing. The herd of cows made an excellent record in milk production and the herd itself has improved. Nearly all the mature animals are registered, and all of the young stock we are raising are eligible for registry. Eight of the bulls and heifers were exhibited at the Eastern States Exposition in September, and eight prizes were taken, six by individual animals and two by groups of them. The crops raised compared only favorably with the record of other years. The corn crop was very small, and the potato crop less than 50 per cent of what was hoped for, the yield being about 1,500 bushels, although a larger acreage than usual was planted.

Despite the serious disadvantages we have had we could not afford to give up the usual activities of therapeutic employment and amusement. In every department, as often recounted in our former annual reports, patients were employed, happy and contented.

DANVERS STATE HOSPITAL.

Opened in May, 1878. Present capacity, 1,535.

Valuation of the plant, per capita of capacity, \$1,711; real estate, \$1,547; personal, \$164.

Daily average number of patients on books, 1,876; in hospital, 1,522; in family care, 24; on visit or escape, 330.

Number on books Oct. 1, 1920, 1,911; in hospital, 1,567; in family care, 21; on visit or escape, 323.

All admissions, 631.

Admissions as insane, exclusive of temporary-care cases, 600.

First cases of insanity, 463.

Voluntary admissions, 31.

Temporary-care admissions, 218.

Finances.

Expenditures from maintenance funds, \$588,640; total receipts, \$91,755, being \$43,173 from private patients, \$43,788 from reimbursing patients, \$4,794 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$7.24.

Weekly per capita cost of whole service, \$2.45; ward service, \$0.92.

One person employed for every 6.29 patients; 1 nurse for every 12.91 patients.

Average monthly wage for all persons employed, \$68.06; for nurses, \$52.83; male ward service, \$52.34; female ward service, \$53.45.

Extract from Trustees' Annual Report.

A great deal of repairing has been accomplished. Most of the roofs of the colony buildings have been reshingled, and needed alterations and repairs of the farm buildings have been made.

Standards of Care.

The standards of care and treatment in this hospital have been upheld during the year, notwithstanding many impediments in the form of inadequate numbers of ward workers, shortage of medical assistants, and the necessity of readjustments and reorganizations of departments, often carried out at the risk of increasing the unrest and uneasiness which have been so notable in the aftermath of the war.

Extract from Superintendent's Annual Report.

Student Internes.

As in former years the medical staff had the assistance of student internes during the period of summer vacations. These positions were filled by undergraduates of The John Hopkins Medical School. The work performed by the internes was most satisfactory. As aides to the medical staff, and as assistants in research in the pathological laboratory, they rendered eager, intelligent service.

Staff Conferences.

Staff conferences have been held daily, except Sundays. Every admitted case is presented before the staff for discussion of diagnosis and treatment. In practically every case leaving the hospital, the question of discharge or parole is decided upon at staff conference. Particular attention is given the environmental and social problems in cases for discharge, and where any doubt or question exists in this connection, a social service investigation is made, and a full report submitted to the conference.

During the year 1,006 cases were presented at staff conference. Of these, 574 were for diagnosis, 17 for reconsideration of diagnosis, and 415 for consideration of parole.

Hydrotherapy.

During the year 1,470 hydrotherapeutic baths were prescribed, 400 general and local massage treatments, and 1,050 packs for therapeutic purposes. On account of the shortage of nurses it was not possible to keep the continuous baths in operation as freely as in former years, but in all cases of excitement, where indicated, this form of treatment was relied upon, and gave excellent results.

Calisthenics, Re-educational Work and Habit Training.

The shortage of nurses and attendants during most of the year impeded the progress of re-education and occupational therapy. Habit training for the untidy and demented cases has been carried on in certain wards, by the charge attendants, with beneficial results. Tangible effects — increased neatness, and better order in the wards — are the rewards of continued endeavor in this direction; and, more important still, the patients are led along the path of reasonable effort to greater interest, confidence and enjoyment of simple tasks fitted to their diminished strength and capacity.

Under the direction of Miss Edith F. Beane, the occupational center, or arts and crafts rooms, furnished abundant opportunity for useful and interesting productive occupation for a large number of patients. The products of this department are now entirely supplied to the wards. Many of the things turned out in the arts and crafts rooms are of beautiful and artistic design, and add greatly to the comfort and appearance of the wards.

Classes in calisthenics and play activities have been carried on as an important supplementary part of re-educational work.

Camp Fire Girls.

Organized for the purpose of promoting social activity and readjustment among those patients whose condition promises recovery or return to community life, our camp of Camp Fire Girls has proven an important restorative agency. In the latter part of the year the absence of Miss Edith Davis, the guardian, interfered with the meetings, and up to the present her place has not been filled. A class in vocal music, under a trained instructor, is now being conducted. In the spring it is purposed to resume the "hikes" and other outdoor activities of the camp.

A somewhat similar organization has been arranged among the men, the principal features of which are setting-up exercises and simple military drill.

Dentistry.

The dental service has been conducted by our visiting dentist, Frank H. Leslie, D.M.D., assisted by the dental hygienist, Miss Cassie M. Mason, who gave full-time service to prophylactic work.

During the year 641 new patients were given dental examinations. Of these, 299 required early attention. A total of 1,031 teeth and roots were extracted. Thirty-two cases were done under nitrous oxid and oxygen, 7 under ether, and the remainder under novocaine. Five impacted teeth and two dental cysts were removed. A total of 197 teeth were filled with cement or amalgam, and 21 dentures were made. Sixty-five patients had complete X-ray examinations.

Toothbrush drills were conducted regularly on the wards under the supervision of Miss Mason. A total of 1,089 prophylactic treatments were given.

Clinics by Visiting Physicians.

During the summer a series of lectures on neurology and psychiatry were given at the hospital by Dr. Stanley Cobb, Dr. Abraham Meyerson, Dr. Oscar J. Raeder and Dr. H. C. Solomon. These meetings were attended by the student internes and members of the staff, and proved a stimulus to study and investigation. The hospital is under grateful obligation to the physicians who so generously gave their time to conduct these clinics.

In addition, the pathologist held clinics for the staff at various times, at which interesting autopsy findings were discussed. The relations between the clinical and research departments have been close and mutually helpful.

WESTBOROUGH STATE HOSPITAL.

Opened in December, 1886. Present capacity, 1,139.

Valuation of the plant, per capita of capacity, \$1,169; real estate, \$842; personal, \$327.

Daily average number of patients on books, 1,541; in hospital, 1,276; in family care, 26; on visit or escape, 239.

Number on books Oct. 1, 1920, 1,543; in hospital, 1,309; in family care, 23; on visit or escape, 211.

All admissions, 341.

Admissions as insane, exclusive of temporary-care cases, 341.

First cases of insanity, 242.

Voluntary admissions, 34.

Temporary-care admissions, 68.

Finances.

Expenditures from maintenance funds, \$556,826; total receipts, \$107,665, being \$74,282 from private patients, \$27,879 from reimbursing patients, \$5,023 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$8.10.

Weekly per capita cost of whole service, \$2.55; ward service, \$0.94.

One person employed for every 5.95 patients; 1 nurse for every 13.01 patients.

Average monthly wage for all persons employed, \$67.22; for nurses, \$53.22; male ward service, \$52.78; female ward service, \$53.66.

Extract from Trustees' Annual Report.

This year has been one of slow recovery from the hardships and sufferings of war. The percentage of physicians, nurses and other employees has been higher than for several years, although never normal. There have been times when those unsuited for their work could not be discharged. It is becoming possible now to eliminate the indifferent and unfit from the hospital service, and such changes are improving the morale of the whole body of workers. The increase in salaries and wages the past year has been of decided advantage in satisfying the desires of employees and making their tenure more permanent.

Music has been furnished in the congregate dining room, and film pictures have been given on the wards. The library is more accessible and the number of magazines and papers has been increased.

Extract from Superintendent's Annual Report.

Medical Service.

Consulting Board. — Dr. Solomon C. Fuller was appointed consulting pathologist March 11, 1920. All members of the Consulting Board have promptly and cheerfully rendered services which have been requested of them from time to time, frequently at considerable inconvenience to themselves.

Visiting Staff. — To augment the services and lessen the burden of members of the Consulting Board, a visiting staff has been organized during the past year, consisting of physicians and surgeons especially qualified in the various specialty lines. These gentlemen have rendered valuable services which would not otherwise have been available for our patients.

Staff Meetings. — Staff meetings have been held daily. At these meetings the full case record of patients with laboratory data, social service reports, etc., are read, the patient interviewed and examined, and the diagnosis, prognosis and treatment discussed and agreed upon. These meetings are open to any physicians who may care to attend.

Ward Services. — The wards are visited by physicians twice daily. All the patients are given careful observation, and frequent notes as to mental and physical condition made. An effort has been made throughout the institution to improve the environment of the patients, to add little comforts and to improve the nursing care and attention, and it is believed that this effort has not been fruitless.

Dental Services. — During the past year the dentist has worked at the hospital two days weekly, and has accomplished a great deal of very necessary work. The number of patients treated was 1,023, of which 372 were examinations only. There were 744 extractions, 441 treatments, 349 fillings and 182 prophylaxis; 30 plates of false teeth were made and 5 repaired; 4 crowns and 3 bridges were made and 3 bridges repaired.

Nitrous oxide was administered in 117 cases. It is anticipated that there will be added to our staff a resident dentist during the coming year, and a much larger amount of dental work accomplished.

Psychiatric Clinic. — The usual weekly clinic has been held at the Out-Patient Department of the Massachusetts Homœopathic Hospital, Boston. The number of persons reporting at that clinic has steadily increased, and it is found to be a very valuable means of keeping in contact with fur-loughed patients.

Instruction of Students. — Following the usual custom, senior students of the Boston University School of Medicine have visited the hospital for instruction in mental diseases. This instruction covers a period of three weeks, and is arranged in such a manner that each individual has an opportunity to acquire a theoretical knowledge as well as practical insight into the more common types of mental trouble.

Training School for Nurses. — The training school for nurses has continued, but during the earlier portion of the year it was difficult to secure candidates to undertake the training. During the past few months the situation has bettered somewhat, and members of the present class are showing an interest in their work. Affiliation with the Massachusetts Homœopathic Hospital continues, our nurses being resident there for nine months during the junior or senior year to obtain special instruction and practice in pediatric, obstetric and surgical nursing.

Occupational Therapy Department. — In May, 1920, the occupational therapy room was moved from the basement of Talbot Building to the second floor of the Administration Building, where new and spacious quarters had been provided with a pleasant outlook and ample light and ventilation. The pleasant surroundings have stimulated the work of this department. Some new equipment has been added, and approximately 70 patients are receiving instruction. The former custom of manufacturing various articles for sale has been discontinued, the present policy of the department being to employ patients for the therapeutic value of the employment, and not for the product obtained. An effort is being made as far as possible, with this therapeutic idea in mind, to employ patients in making things which will be useful in the wards of the hospital and brighten up their environment.

During the summer months groups of the patients employed in the occupational therapy room also spent a portion of their time in the garden, much to their benefit because of the exercise and fresh air, and of considerable value to the institution. They gathered 120 bushels of peas, 561 bushels of string beans, 31 bushels of rhubarb and $1\frac{1}{2}$ bushels of tomatoes.

BOSTON STATE HOSPITAL.

Opened in December, 1839. Present capacity, 1,914.

Valuation of the plant, per capita of capacity, \$1,939; real estate, \$1,823; personal, \$116.

Number on books Oct. 1, 1920, 2,214; in hospital, 1,846; in family care, 8; on visit or escape, 360.

All admissions, inclusive of temporary care, 1,955.

Admissions as insane, exclusive of temporary-care cases, 906.

First cases of insanity, 694.

Voluntary admissions, 268.

Temporary-care admissions, 1,559.

*Finances.*¹

Expenditures from maintenance funds, \$854,689; total receipts, \$78,484, being \$25,619 from private patients, \$49,501 from reimbursing patients, \$3,364 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$9.03.

Weekly per capita cost of whole service, \$3.34; ward service, \$1.29.

One person employed for every 4.57 patients; 1 nurse for every 9.45 patients.

Average monthly wage for all persons employed, \$66.47; for nurses, \$53.36; male ward service, \$52.05; female ward service, \$54.40.

Extract from Trustees' Annual Report.

The Psychopathic Department.

With the conclusion of the year covered by this report, the responsibility for the psychopathic department by this Board of Trustees ceases, as the department becomes an independent institution under the name of the Boston Psychopathic Hospital, and under the administration of a separate board of trustees. The department was authorized in 1909, and the land was secured and the building erected under the supervision of this Board. Since its opening in 1912, the relation to the hospital department has consisted in the common services which could be carried on economically, and in the direction and management by the superintendent and steward. Otherwise the two departments have been kept separate. The transition to the status of an independent institution has therefore been made without difficulty.

The death of Dr. Elmer E. Southard, for seven years director of this department, took place in New York in February, and the following minute was adopted by this Board:—

¹ Includes Psychopathic Department, which becomes a separate institution on Dec. 1, 1920.

The trustees of the Boston State Hospital place on their records this expression of their appreciation of the eminent scientific service which Dr. Elmer E. Southard rendered to the State and especially to the psychopathic department of this hospital, of which he was the director from the beginning. He crowded into a too brief life an immense amount of valuable and productive work. He was an inspirer of men and a keen judge of their latent possibilities. His national reputation brought him in touch with many bright minds, and these young men he permanently influenced by his own enthusiasm and indefatigable and brilliant work in his chosen profession.

Extract from Superintendent's Annual Report.

Arrangements have now been completed for filling the pond in the East Group, authority having been obtained from the city to have ashes deposited in this place by a contractor for the Dorchester district. To insure the proper surface drainage of the East Group after this is done, it has been necessary for us to install a 6-inch Akron pipe drain connecting the present pond with the Canterbury Branch of Stony Brook, this drain running between the present East Group barn and the administration building. Attempts on the part of several patients to commit suicide in the pond during the past year have emphasized the necessity of disposing of this source of danger.

Attention should be called again to the desirability of acquiring the 150,000 square feet of land belonging to the Forest Hills Cemetery, and located south of Canterbury Street, adjoining the West Group. This is the only part of the site, bounded by Canterbury Street on the north, Harvard Street on the south, Morton Street on the east and Walk Hill Street on the west, that has not as yet been acquired by the State. The buildings on this land could be used to very good advantage, and would facilitate the removal of the barns and other objectionable structures adjoining the administration building in the East Group. The desirability of acquiring this land was referred to by the joint special legislative committee on public institutions in their report of March, 1920, as shown in Senate Document No. 450.

Further reference should be made at this time to the Canterbury Branch of Stony Brook. Although the channel of this brook was cleaned out by the city about one year ago, it is already overgrown with weeds, and will soon be obstructed as badly as ever. The brook not infrequently overflows its banks, and 30 to 40 acres of hospital land have been covered with water at times. It occasionally gets into the steam conduits, and has flooded the pump room of the power house to a depth of a foot and a half. Such an overflow may at any time render it impossible to provide heat for the West Group, which now has a capacity of over 1,500 beds. This condition of affairs should be remedied as soon as possible. The conduit built by the city extends up to the point where the brook enters the hospital property on Harvard Street. The brook runs through the grounds for a distance of approximately 4,500 feet. The conduit should be extended for at least 2,200 feet, to the point where the hospital road crosses the brook in the West Group. This would reclaim 30 or 40 acres of valuable land,

worth approximately \$260,000. The work of enclosing this brook as originally undertaken by the city is incomplete, and the present condition was intended only as a temporary arrangement. The joint special committee of the Legislature, reporting on public institutions in 1920, referred to this as a serious menace requiring immediate attention.

Occupational therapy has been developed materially during the year and is now an important factor in the treatment of the patients in the wards. Many of the patients have shown a remarkable interest in the occupational opportunities offered them, notwithstanding their brief residence in the hospital. The instruction given has included the making of rugs, mats, nets, weaving, basket making, chair repairing, needlework, embroidery, hemstitching, general repairing, etc. This work has been conducted largely on the upper floor of the building, — a very enjoyable place during the summer. Music has usually been furnished during the latter part of the afternoon. Considerable work has also been done in the wards.

Hydrotherapeutic treatments have also been used extensively during the year. The hydiatric rooms are in active operation throughout the week, with the exception of Sundays, the morning being devoted to the men and the afternoon to the women. The extension of this work is shown by the following report of treatments given during the year: —

Electric cabinet and shower treatments,	1,978
Steam cabinet and shower,	957
General massage,	61
Showers,	1,303
Tub baths,	43
<hr/>	
Total,	4,342

THE PSYCHOPATHIC DEPARTMENT.

The Psychopathic Hospital completes the first chapter of its history, that of a department of the Boston State Hospital, with the conclusion of the present year, as a result of a law enacted by the Legislature at its last session.

It is worthy of note that the Boston State Hospital, at the time of its establishment the first municipal institution exclusively for mental diseases in America, was the first institution in the United States to make provisions for a separate psychopathic department, which was opened on June 24, 1912.

At the conclusion of this first period in its history it will perhaps not be out of order to recall the objects and purposes for which it was founded, as shown by a quotation from the twelfth annual report of the Massachusetts State Board of Insanity: —

The Psychopathic Hospital should receive all classes of mental patients for first care, examination and observation, and provide short, intensive treatment of incipient, acute and curable insanity. Its capacity should be small, not exceeding such requirement.

An adequate staff of physicians, investigators and trained workers in every department should provide as high a standard of efficiency as that of the best general and special hospitals, or that in any field of medical science.

Ample facilities should be available for the treatment of mental and nervous conditions, the clinical study of patients on the wards, and scientific investigation in well-equipped laboratories, with a view to prevention and cure of mental disease and addition to the knowledge of insanity and associated problems.

Clinical instruction should be given to medical students, the future family physicians, who would thus be taught to recognize and treat mental disease in its earliest stages, when curative measures avail most. Such a hospital, therefore, should be accessible to medical schools, other hospitals, clinics and laboratories.

It should be a center of education and training of physicians, nurses, investigators, and special workers in this and allied fields of work.

Its out-patient department should afford free consultation to the poor, and such advice and medical treatment as would, with the aid of district nursing, promote the home care of mental patients.

Its social workers should facilitate early discharge and after-care of patients, and investigate their previous history, habits, home and working conditions and environment, heredity and other causes of insanity, and endeavor to apply corrective and preventive measures.

The specialized functions of the department were well defined by the director of the department in one of the previous annual reports, as follows: —

The institution is not a modified or sublimated form of receiving ward for a great district hospital. The great district hospital, of which the Psychopathic Hospital is a department, has, in point of fact, its own receiving ward planned upon proper modern lines, and is adequately equipped for the reception of insane persons committed to the institution by the operations of the ordinary probate court processes. The Psychopathic Hospital, on the other hand, is an institution which does not receive cases committed by the probate court process. The first requirement in understanding the Psychopathic Hospital's relation to the community is an understanding that the hospital is not built for the reception of medico-legally insane persons who have been determined to be insane upon the assurances of two qualified physicians. It is true that all our patients are admitted under some form of law, but very few of them are admitted by court processes, and those few are sent to us for highly special determinations which the large staff and special equipments of the hospital are enabled to make more quickly and effectively than the State institutions for the great group of ordinary committed cases.

The functions of the psychopathic department were modified somewhat by the establishment of the Massachusetts State Psychiatric Institute in 1919.

OUT-PATIENT SERVICE.

The work of the out-patient service consists, in a general way, of the study of the cases referred to that department from the wards of the Psychopathic Hospital or from its social service department, cases referred by courts, schools, social agencies and other hospitals, as well as those referred by individual physicians, and particularly cases coming on their own initiative. The statistical tables showing the number of patients presenting themselves at the out-patient clinics show that there is a remarkable

demand on the part of the general public for a service of this type. It is worthy of note that a considerable percentage of these cases include adolescents between the ages of fourteen and twenty-one years, and children from two to fourteen years old, as well as quite a number of infants.

The important function of the out-patient service is the mental examination of a rather wide range of individuals of various types. An analysis of the reports of the department shows that this work covers principally cases in which the mental condition of the individual is in question, examination of backward school children, sex offenders, juvenile delinquents and psychoneurotics, studies of families of syphilitics, and the supervision of patients discharged from the wards of the hospital. A study of the statistical tables shows that a large percentage of these cases do not present any evidences of psychoses. This group has to do primarily with mental deficiency, psychopathic personalities, epilepsy and syphilis. Of the actual psychoses represented during the year, psychoneuroses, dementia præcox, manic-depressive insanity, alcoholism and psychoses associated with organic brain disease predominate.

The question often arises as to what is actually accomplished by the operation of an out-patient service in an institution for mental diseases. The actual disposition of these cases as covered in the statistical reports shows that in the majority of the cases presenting themselves nothing more than supervision in the out-patient service is necessary. In a considerable percentage of cases reports are made and advice relative to the patient is given to some social agency which was responsible for the visit. Observation in the wards of the psychopathic department is recommended in a large number of cases, and commitment in many instances arranged for in institutions for the feeble-minded or State hospitals.

The disposition of these cases is shown in the following table:—

	Males.	Females.	Totals.
Observation in wards recommended,	47	37	84
Commitment to institution for feeble-minded recommended,	30	38	68
Commitment to institution for insane recommended,	10	10	20
Commitment to penal institution recommended,	-	-	-
General hospital care recommended,	16	19	35
Psychopathic out-patient care recommended,	238	274	512
Report and advice given to school,	10	7	17
Report made to court,	17	14	31
Report made and advice given to social agency,	37	181	218
Report made and advice given to physician,	6	3	9
Treatment for syphilis recommended,	10	17	27
No treatment,	76	67	143
Totals,	497	667	1,164

It will be noted that 43.99 per cent of these cases were looked upon as being proper cases for supervision and treatment in the out-patient service, 5.84 per cent were recommended for commitment to institutions for the feeble-minded, 12.28 per cent required no treatment, and observation in the wards was recommended in 7.21 per cent. It is interesting to note that in only 1.71 per cent of these cases was commitment to institutions for the insane deemed necessary. Three per cent of the cases were referred to general hospitals for further treatment, and 18.73 per cent of the cases were referred to other social agencies with some report as to their subsequent care.

Social Service.

The social service department is under the immediate direction of the chief of social service, Miss Helen L. Myrick, and has included two assistants engaged in the routine work of the department, one assigned to the out-patient service, one engaged in the investigation of syphilis, two connected with the Red Cross, two student internes and five student externes.

The Red Cross service has been extended to all ex-service men who have been in the wards of the hospital during the year. These cases have been under the immediate supervision of the American Red Cross. Their work, as described by Miss Myrick, "consists of making a brief social examination of every ex-service man who is a patient; looking up history on any of these patients for whom the doctor may need such history to help in the diagnosis; looking up matters of compensation and war risk insurance; steering patients needing social care to home service section of the Red Cross upon their discharge from the department; and of doing social case work with those who need special supervision." This department has had a total of 299 cases under its supervision during the year.

The duty of the social worker assigned to the out-patient service is to see that the patients coming under the supervision of this department report for instructions and treatment to the physician in charge at such time as may be deemed necessary. It has been customary to refer to this as "follow-up service." The social workers connected with the syphilis service of the Department of Mental Diseases have had a total of 199 cases under their supervision during the year, including 192 new cases. Their work covered 80 cases in the wards of the psychopathic department, and 23 reporting at the out-patient service.

GRAFTON STATE HOSPITAL.

Opened in October, 1877. Present capacity, 1,150.

Valuation of the plant, per capita of capacity, \$1,340, real estate, \$1,149; personal, \$191.

Daily average number of patients on books, 1,554; in hospital, 1,478; in family care, 10; on visit or escape, 66.

Number on books Oct. 1, 1920, 1,453; in hospital, 1,385; in family care, 9; on visit or escape, 59.

All admissions, 30.

Admissions as insane, exclusive of temporary-care cases, 30.

First cases of insanity, 16.

Voluntary admissions, 3.

Temporary-care admissions, 3.

Finances.

Expenditures from maintenance funds, \$538,044; total receipts, \$22,548, being \$2,252 from private patients, \$14,742 from reimbursing patients, \$5,554 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$7.34.

Weekly per capita cost of whole service, \$2.09; ward service, \$0.70.

One person employed for every 6.94 patients; 1 nurse for every 16.26 patients.

Average monthly wage for all persons employed, \$63.57; for nurses, \$49.73; male ward service, \$49.34; female ward service, \$50.16.

Extract from Trustees' Annual Report.

The scarcity of employees, which has been so great a problem during the past two years, is gradually being overcome, especially in regard to the male service. The condition is far from normal, however, in the supply of young women for nurses, as they seem to be more difficult to obtain. The situation of the hospital, being so far removed from the nearest city, and with very poor traveling accommodations, renders it less attractive to the young woman, who, after working hard all day, would seek relaxation of mind and body after the close of the prescribed hours of duty. The evening period does not allow sufficient time to go to the city, attend an entertainment and return at the required hour, so that the employees are practically compelled to stay on the hospital grounds or very near them even when off duty. Under these circumstances and conditions the Board recommends that some provision be made for a recreation hall for the employees, there being no available building at the present time to provide for such an accommodation. This desirable provision would prove to be both attractive and beneficial, for with such a recreation center at the disposal of the nurses and attendants when off duty, it would be of great benefit to both their health and spirits, and would remove one of the great objections which they have to coming here.

*Extract from Superintendent's Annual Report.**General Health.*

The general health of both patients and employees for the past year has been good, aside from a few cases of influenza that occurred during February and March, and sporadic cases of tonsillitis during April. There has been the usual number of injuries and accidents incident to hospital life. The hospital has been particularly free from enteritis which so frequently appears during the summer months.

The following operations were performed during the year: —

Dilatation and curettage,	2
Appendectomy,	2
Amputation of breast,	2
External urethrotomy,	1
Perinephric abscess,	1
Herniotomy,	1
Hydrocele,	1
Epulis,	1

The Herd.

The herd was tested in October for tuberculosis, under the direction of the Division of Animal Industry. As a result about 44 per cent reacted. Upon advice the most advanced and suspicious cases were disposed of, the more hopeful were segregated, and the non-reactors were placed in a barn by themselves. On account of this condition it was deemed wise to install a pasteurizing equipment; accordingly, one was at once ordered and will be put into operation as soon as possible.

The Farm.

The farm work has progressed as well as could be expected, everything considered. While the production was not as large as hoped for, yet it was quite satisfactory. Owing to the late and wet spring and the non-arrival of the fertilizer, coupled with the drought in July and August and the extreme shortage of efficient farm help during the time when it was most needed, it was impossible to properly care for the growing crops.

Dental Report.

The dental work has been under the direction of Dr. Burton E. Loring of Worcester, who has spent half a day each week at the hospital. The following work has been done: —

Roots extracted,	402
Teeth extracted,	367
Fillings,	48
Examination,	14
Plates,	11
Impression taken,	3
Cleaning,	23
Nerve removed,	1
Treatment,	5

Training School.

The work in the training school has been carried on under the supervision of Ena M. Benson, and has been very successful in spite of the great rotation and shortage of nurses.

On Nov. 30, 1920, the total number of nurses was 33, divided as follows: seniors, 8; intermediates, 8; juniors, 10; Boston City Hospital, 7. Three were graduated on Sept. 22, 1920.

MEDFIELD STATE HOSPITAL.

Opened in May, 1896; present capacity, 1,540.

Valuation of the plant, per capita of capacity, \$1,210; real estate, \$1,045; personal, \$165.

Daily average number of patients on books, 1,621; in hospital, 1,547; in family care, 12; on visit or escape, 62.

Number on books Oct. 1, 1920, 1,631; in hospital, 1,553; in family care, 10; on visit or escape, 68.

All admissions, 97.

Admissions as insane, exclusive of temporary-care cases, 97.

First cases of insanity, 60.

Voluntary admissions, 1.

Temporary-care admissions, 23.

Finances.

Expenditures from maintenance funds, \$593,486; total receipts, \$25,327, being \$2,867 from private sources, \$18,299 from reimbursing patients, \$4,161 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$7.29.

Weekly per capita cost of whole service, \$2.41; ward service, \$0.95.

One person employed for every 6.03 patients; 1 nurse for every 12.18 patients.

Average monthly wage for all persons employed, \$63.42; for nurses, \$50.55; male ward service, \$49.39; female ward service, \$51.50.

Extract from Trustees' Annual Report.

The farm has produced good crops, considering the amount of land under cultivation. The potato crop was good, there being 4,500 bushels of large and 200 bushels of small potatoes. There was a small apple crop, — 250 barrels.

The garden crops were unusually large, with the exception of the onions and the turnips.

With the aid of patient labor, food crops can be grown cheaper than they can be bought, and with 400 tillable acres this could be accomplished. At the present time less than half of this amount is under cultivation, and only about 50 acres that can be cleared and put in condition.

The purchase of the several small privately owned farms adjoining the hospital property, about 10 to 30 acres each, would not only supply the institution with all the hay, vegetables and fruit, but solve the housing question for the staff officers. The buildings thereon could be altered for their accommodation at less expense than the erection of new houses.

Extract from Superintendent's Annual Report.

Occupational Work.

During the past several years an effort has been made to extend industrial and occupational work, and in that time many patients have been interested in either one or the other form of this work. With the opportunities for working about the grounds and on the farm, and in the prosecution of special construction work, many additional male patients have been taken out of the wards and so employed with distinct benefit to them. During the past year a number of women patients were taken out and interested in gardening. Suitable clothing was made for them, and the experience was not only enjoyable but beneficial.

The opportunities for employment for women patients are not so numerous, and for those who cannot very well work in the various female industries, and in the regular occupational therapy room, we have established a number of classes on the wards. The character of this work ranges from the kindergarten type of work up to the regular occupational work. It is hoped as time goes on to even extend this further.

During the very great shortage of nurses and attendants a number of both male and female patients took on responsibilities of attendants, doing a considerable portion of the ward work. They were glad of the opportunity of serving the institution and assisting their fellow patients as far as they could, without the promise of any special reward or remuneration. The institution is certainly indebted to them for this conscientious service, and I am happy to be able to express my appreciation of their efforts, as well as the efforts and work and spirit of all officers and employees.

GARDNER STATE COLONY.

Opened in October, 1902. Present capacity, 758.

Valuation of the plant, per capita of capacity, \$1,014; real estate, \$788; personal, \$226.

Daily average number of patients on books, 886; in hospital, 811; in family care, 47; on visit or escape, 28.

Number on books Oct. 1, 1920, 895; in hospital, 815; in family care, 51; on visit or escape, 29.

All admissions, 56.

Admissions as insane, 56.

First cases of insanity, 48.

Received by transfer, 31.

Finances.

Expenditures from maintenance funds, \$315,203; total receipts, \$12,450, being \$2,237 from private patients, \$3,942 from reimbursing patients, \$6,271 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6 92.

Weekly per capita cost of whole service, \$2.69: ward service, \$0.83.

One person employed for every 6 patients; 1 nurse for every 14.54 patients.

Average monthly wage for all persons employed, \$74.02; for nurses, \$55.63; male ward service, \$56.27; female ward service, \$54.88

Extract from Trustees' Annual Report.

While we have had the same difficulty as other hospitals in retaining officers and employees, we have noted a gradual improvement in the situation during 1920, due, we believe, to the higher wages now paid. We feel encouraged at the high grade of our employees, but it is still a difficult problem to secure in the numbers needed that high type of person so essential to the proper care of the mentally ill.

Much has been said as to the need of obtaining and retaining those persons who are especially adapted by education, tact and kindness for this work, and of the method of retaining such persons in our employ when we have them through good housing, considerate treatment, food and the like, but little really has been done either this year or any year to carry out these ideas. We have fortunately had a few buildings in which suitable living conditions have been offered, but they are not in proportion to the number of people employed, and we believe this coming year a real effort should be made to provide suitable housing, especially at an institution located like this, three miles from any community. Surely those whom we would like to see continue in the work should be pleasantly and comfortably housed, and we believe that this, more than anything else we can do, will serve to elevate the standard of employees. This hospital is a community by itself, and as such must have provisions for the employees similar to those furnished in industrial lines. This can be done through appropriations of relatively small amounts of money, and will unquestionably show its reflection in the better care of patients.

At the present time we have not a single vacant room for employees that should be added. We respectfully urge that our request for a hospital building be granted this year in order that two small cottages now used for hospitals may be used for employees. These buildings were never intended for use as hospitals, are ill adapted to this purpose, and we cannot urge too strongly the granting of an appropriation for a hospital building. It is one of the tools the institution needs. This would do two things, — provide hospital facilities, and free two buildings for employees' dwellings.

Extract from Superintendent's Annual Report.

Health.

The general health of our people has been good, but each year we have an increasing number becoming infirm and incapacitated for work. Remembering that during the earlier years of the colony the ages of those transferred here averaged forty-five, it will be understood that these patients are nearing the end of their active days, and from now on better infirmary and hospital accommodations will be necessary.

Clinics and Consultations.

The work of the out-patient department shows a gradual increase each year. Eighteen clinics have been held in Fitchburg, Athol and Orange. At these clinics 75 different persons have been seen for consultation. Seventeen different cases have been seen in their homes; 3 in other hospitals; 2 at the request of courts for determination of their sanity; 69 have been seen for the determination of mental age, and of these, 45 were found to be feeble-minded, needing special care, and 24 were backward only. Of all persons seen in consultation, 99, the diagnosis made was feeble-minded, 55; retarded less than three years, 8; insane, 12; not insane or feeble-minded, 3; other conditions, 21.

Dentistry.

In the first years, and until the war conditions made it impossible, we had the services of a dentist part time. In April, 1920, Walter M. Frizzell, D.M.D., was appointed resident dentist, and a graduate nurse was appointed full time to assist him.

Occupational Therapy.

As this was the prime object in establishing this institution, so has it been the one thing before us this year as in previous years. While much has been done in the branch of the so-called arts and crafts, and the interest that develops in the patients been beneficial to those engaged therein, our particular effort has been to raise, make and produce those articles that we would otherwise be compelled to purchase or go without. We have continued to raise all our vegetables, milk, poultry, eggs, pork and a considerable amount of beef. We make all clothing, both outer and under,

including shoes, stockings, caps, etc. We have developed our weaving industry, started in previous years, to the point that we are now making all overalling and shirting material, have made for two years all of our blankets for patients, and this year have made blankets for our employees from our own wool. In addition we are weaving all bedspreads. Labor and materials have been high, and the cost of production necessarily high, the gain being shown in the mind occupied.

FOXBOROUGH STATE HOSPITAL.

Opened in February, 1893. Present capacity, 449.

Valuation of the plant, per capita of capacity, \$1,982; real estate, \$1,686; personal, \$296.

Number on books Oct. 1, 1920, 549; in hospital, 499; on visit or escape, 50.

All admissions, 139.

Admissions as insane, exclusive of temporary-care cases, 119.

First cases of insanity, 77.

Voluntary admissions, 4.

Temporary-care admissions, 20.

Finances.

Expenditures from maintenance funds, \$268,089; total receipts, \$17,609, being \$4,739 from private patients, \$10,581 from reimbursing patients, \$2,289 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$10.60.

Weekly per capita cost of whole service, \$4.01; ward service, \$1.18.

One person employed for every 4.11 patients; 1 nurse for every 10.42 patients.

Average monthly wage for all persons employed, \$71.66; for nurses, \$53.40; male ward service, \$54.34; female ward service, \$52.22.

MENTAL WARDS, STATE INFIRMARY.

Opened in October, 1866. Present capacity, 673.

Daily average number of patients on books, 707; in hospital, 698; on visit or escape, 9

Number on books Oct. 1, 1920, 720; in hospital, 698; on visit or escape, 32.

All admissions, 35.

Admissions as insane, 35.

Received by transfer, 24.

First cases of insanity, 30.

Extract from Superintendent's Annual Report.

By recent act of the Legislature, chapter 193, Acts of 1920, the Department of Mental Diseases has since the first of May adopted the policy of sending all cases committed to the Norfolk State Hospital for dipsomaniacs and drug addicts to this institution on transfer papers. The cases are committed by the courts to the Norfolk Hospital, but sent directly here, and the Department of Mental Diseases is notified to send to the Infirmary the proper transfer papers.

There were 11 such cases during the year. The policy of treatment for all such cases is the withholding of all such drugs as they may have been taking and treating them with a course of cathartics followed by tonics, with the usual result of marked improvement in from three to five days and ability to take up some light occupation within ten days of their admission. The difficulties in handling these additional cases have not proved thus far to be as great as was anticipated.

BRIDGEWATER STATE HOSPITAL.

Opened in September, 1886. Present capacity, 835.

Daily average number of patients on books, 841; in hospital, 828; on visit or escape, 13.

Number on books Oct. 1, 1920, 840; in hospital, 824; on visit or escape, 16.

All admissions, 68.

Admissions as insane, 68.

First cases of insanity, 52.

MONSON STATE HOSPITAL

Opened in May, 1898. Present capacity, 967.

Valuation of the plant, per capita of capacity, \$1,038; real estate, \$818; personal service, \$220.

Daily average number of patients on books, 1,132; in hospital, 961; on visit or escape, 171.

Number on books Oct. 1, 1920, 1,113; in hospital, 960; on visit or escape, 153.

All admissions, 209.

Insane admissions, 56.

Sane epileptics admitted, 153.

First cases of epilepsy, 169.

Finances.

Expenditures from maintenance funds, \$378,970; total receipts, \$20,952, being \$8,209 from private patients, \$7,709 from reimbursing patients, \$5,034 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$7.42.

Weekly per capita cost of whole service, \$2.67; ward service, \$0.99.

One person employed for every 6.31 patients; 1 nurse for every 13.78 patients.

Average monthly wage for all persons employed, \$73.17; for nurses, \$59.36; male ward service, \$57.61; female ward service, \$61.83.

The general statistics for the year are as follows:—

Extract from Trustees' Annual Report.

The past year has been a year of recovery and readjustment after the war. We have again attained our usual number in our medical staff, except for one woman physician. The troubles of adjustment incident to the times have been encountered here as in other places, but our patients are happy and well cared for. We have had no unfortunate health episodes during the year.

A tremendous amount of work, investigatory in character, has been done in the past at this hospital in an endeavor to add to our success in the treatment of this malady. The fact that lesions of an organic nature, not admitting of improvement by any means, are found in something like 70 per cent of cases coming to autopsy indicates that in only a moderate number of cases may we expect cure. However, it is most desirable that research be continued looking to the cure of any possible remediable cases. During the war, and since, while our staff was depleted and the energies of the remaining members fully taken, research work was practically at a standstill.

We hope in the next year or two to initiate action in this department that will be commensurate with the opportunity here afforded for study.

Extract from Superintendent's Annual Report.

In chapter 277 of the General Acts of 1919 the Department of Mental Diseases is required to co-operate with the Department of Education in examining children who are backward in school work. The Department requests us to take up the work in Holyoke, Chicopee, Westfield, Springfield and Palmer. I have designated the assistant superintendent, Dr. Morgan B. Hodskins, to attend the course of instruction at Waverley, and then to act as chief of clinic when the actual work begins.

Among the regular commitments the number of patients who are capable of working is rather small. Those received have been invalids or unwilling to assist in the work of the hospital, so that the efficiency of our work has been rather decreased than increased. It has been especially difficult to find men who could work out of doors on the farm. Ordinarily there are not more than four or five really helpful patients working around the barns and the farm. By a great effort we generally get five or six more, but these are very uncertain helpers, and while they may be useful one day in the week the other days they would be disabled. In the farm reports we show how much patient labor has been used and the estimated value of it, and I regret that this amount has not been larger, but when a patient refuses to work on the farm there is no way of compelling him to do so, even if we considered him able. We do, however, keep up the effort constantly, and while such a patient might be allowed to work in the industrial room and on the wards for a few days, we should constantly try to have him do farm work, as this is the place where we need help the most.

The quantity of land under cultivation has been 124 acres. The results

of our agricultural efforts are shown in the farm report in minute detail. Many of the crops have shown a loss; to some extent this is due to the small number of patient helpers we can muster. We have to consider, also, that the quality of the land comes into this estimate, our farm being one especially adapted to dairy use and very poorly adapted to agriculture. The product of the dairy has not been especially affected by the shortage of patient help, and the usual supply of milk has been furnished. The amount of hired help in the barn and around the cows might be considerably decreased if we could find suitable patient helpers. The fact that men who are at work outside have to be brought in early to help with the milking reduces the profits of the outside work to a considerable extent.

The training school has gone on in practically the same way that it would had we had a larger class. Three only have finished their courses this year after their usual year of affiliation at Bellevue. We are hoping to increase the number of nurses in training, and shall make every effort to give them the benefit of this kind of work. All our nurses who have taken the Bellevue affiliation and completed the course here have succeeded in passing the State Board examinations for registration.

MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED.

Opened in October, 1848. Present capacity, 1,498; at Waltham, 1,183; at Templeton, 315.

Valuation of plant, per capita of capacity, \$737; real estate, \$590; personal, \$147.

Daily average number of patients, 1,562: increase for the year, 49.

Number Oct. 1, 1920, 1,598.

Finances.

Expenditures from maintenance funds, \$552,492; total receipts, \$18,398, being \$5,722 from private sources, \$6,536 from reimbursing patients, \$6,140 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.69.

Weekly per capita cost of whole service, \$2.29, ward service, \$0.91.

One person employed for every 6.85 patients; 1 nurse for every 12.99 patients.

Average monthly wage for all persons employed, \$68.19; for nurses, \$51.50; male ward service, \$51.54; female ward service, \$51.44.

The general statistics for the year are as follows: —

	Males.	Females.	Totals.
Number present Sept. 30, 1919,	915	618	1,533
Admitted during the year,	377	134	511
School cases,	67	26	93
Custodial cases,	83	44	127
By transfer,	2	1	3
From visit,	63	26	89
From escape,	6	—	6
Nominal admissions from visit,	108	34	142
Nominal admissions from escape,	48	3	51
Whole number of cases within the year,	1,292	752	2,044
Dismissed within the year,	341	105	446
Discharged,	191	63	254
Capable of self-support,	13	4	17
Improved,	154	37	191
Not improved,	21	18	39
No change,	3	4	7
Died,	14	9	23
Transfer,	3	2	5
On visit,	105	31	136
On escape,	28	—	28
Number present Sept. 30, 1920,	951	647	1,598
State,	940	638	1,578
Private,	11	9	20
Daily average number of patients for the year,	939+	623+	1,562+
Number at school Sept. 30, 1920,	680	647	1,327
Number at Templeton Colony Sept. 30, 1920,	271	—	271
Applications for the year,	—	—	544

Extract from Trustees' Annual Report.

It is a matter of common knowledge that institutions cannot be provided to care for all the feeble-minded in the Commonwealth, so that if the plan of home supervision should be adopted, it would be of the greatest value. It should be undertaken and carried out under the provisions of a carefully drawn statute. It may be said that it is no part of the duty of the trustees of the Massachusetts School for the Feeble-minded to suggest to the Commonwealth what plan she should adopt to extend her care and control of her feeble-minded children. On the other hand, does she not look to them for constructive suggestions when they seem to them wise? The last half of the superintendent's report of last year deals with this matter at length, and we would urge upon the Legislature the wisdom of such legislation as is there recommended.

Shortage of Employees. — Until within a few months it was difficult to secure suitable employees, making it hard to properly care for the children and to do the work. Great credit should be given to the faithful employees who remained in service and often did double duty.

Schools. — The schools and training classes seem to be on an efficient basis. The fact that practically all of the male morons who have no innate propensities for evil, who have finished our course of training in the schools, the workshops and on the farm, are returning to their homes at the age of eighteen or thereabouts, if they have good homes, and are nearly all doing well in every way, gives the impression that the training at the school is practical and useful. Each year we feel more strongly that with a male moron the crucial period is from fourteen to seventeen or eighteen years, when he either forms habits of obedience and self-control or gives himself up to self-indulgence and anti-social conduct. If he can be safely led through this critical period, and made to feel that he has a place in the world, he is likely to become a useful and law-abiding citizen.

Extract from Superintendent's Annual Report.

We know full well that we cannot change the innate intellectual capacity of a defective individual. We know that each defective seems to have very definite intellectual limitations, but that he also has very definite possibilities, and our task is to develop these to the fullest possible extent, to keep him sweet-tempered, to give him self-respect, and to make him useful.

We formerly kept our brighter boys and girls in the school-room classes until they were twenty-one or twenty-two years of age. We discovered that these boys and girls seldom amounted to much after this long schooling. About fifteen years ago we decided to graduate all from the school classes at the age of seventeen at the most, as accurate individual school records showed that it was very seldom that any real scholastic improvement was reached after the age of sixteen. The training after these children pass the above school age is now largely vocational. We believe that to this change in our school program is largely due the rather remarkable success of some of the boys who have left the school.

The psychologists now tell us that the native intelligence of the feeble-minded, or, indeed, of any person, does not increase after the age of sixteen years on the average, and that further development means the acquisition of knowledge by the use of the definitely fixed standard of intelligence.

Out-patient Clinics. — At the out-patient clinic at Waverley and the school clinics at Fall River, New Bedford, Worcester and Revere, 904 different patients were considered for diagnosis, prognosis and advice as to care and treatment, and 561 of these were given a thorough mental and physical examination. Advice was given 343 patients by letter or telephone. The 561 patients examined were diagnosed and classified as follows: —

I. Those found to be feeble-minded:—

1. Feeble-minded, needing institutional care,	147
2. Feeble-minded, referred to private schools,	3
3. Feeble-minded, advised home care for the present,	73
4. Feeble-minded, needing immediate medical or surgical treatment,	9
5. Feeble-minded and epileptic, referred to hospitals for epileptics,	14
6. Feeble-minded and insane, referred to hospitals for the insane,	1
7. Feeble-minded and delinquent, to be treated on basis of delinquency,	10
8. Feeble-minded, endocrine,	43
9. Feeble-minded, possible added psychosis,	9
10. Feeble-minded, advised leaving school and going to work,	10
11. Feeble-minded, special class,	82
	— 401

II. Those found to be not feeble-minded:—

1. Normally minded, generally needing new school or home adjustment,	28
2. Normally minded, but delinquent,	6
3. Normally minded, needing immediate medical or surgical treatment,	4
4. Not feeble-minded, endocrine,	3
5. Not feeble-minded, possible psychosis,	6
6. Not feeble-minded, continue in the grades,	56
	— 103

III. Diagnosis deferred:—

1. Admitted for observation,	21
2. To be observed at home,	36
	— 57

After-care and Social Service.—The social service department has become an important part of the work of the school. We have learned that many feeble-minded persons of the moron grade, especially those who have been trained at the school or in special school classes, can live happily and harmlessly at home if they come back to the school at regular intervals to report and for advice and guidance. There are now 177 persons still enrolled as patients, but living at home. Miss Matthews, the social worker, is in touch with the majority of these cases. Sixty-two boys and 21 girls are on the "on trial" list, agreeing to return at regular intervals. On some visiting Sundays a dozen or more of these boys report, all neatly dressed, proudly telling of their jobs and their wages, showing their bank books, etc. Their pathetic craving for "respectability" is an important foundation for successful life in the community. Fourteen boys are attending night school.

All requests for vacations and discharges are referred to the social worker, who investigates home and neighborhood conditions. There were 415 patients allowed to go for vacation during the past summer, and practically all have returned. The relatives sign an agreement to return the boy or girl at a specified time.

The social worker enlists the sympathy and moral support of the clergy, social agencies, court and school officers in the different cities and towns, and they materially aid in the supervision of "on trial" and other patients on visit.

Hitherto we have allowed the female patients to go out only in exceptional cases where home conditions are very favorable. The fact that nearly all of these cases so released have done well has encouraged us to believe that it is only fair that a larger number of well-behaved girls who have been here for a long time should be given a trial.

If the Legislature had enacted the long asked for law providing for extra-institutional supervision of the feeble-minded, similar to the Minnesota law of 1917, at least 100 female patients now present could be returned to their homes. Such a law would involve no hardship, would save the State \$30,000 or more annually, and would give liberty to many people who otherwise will be supported indefinitely by the State.

The Harvard Summer School for Teachers of Special Classes for Defective Children. — In July the Harvard Summer School for Teachers of Special Classes for Defective Children held its sessions at the school for two weeks, and was attended by twenty-five teachers. The apparent success of this school seems to point a feasible way of providing this much-needed instruction for such teachers in this State. The opening of many special classes in this State and elsewhere has resulted in the creating of a great demand for specially trained teachers. The experience and methods and equipment of this school can properly be utilized for this purpose.

Lectures and Clinics for Students. — No exact record has been kept of the classes of students from schools and colleges and professional schools who have visited the school for the purpose of receiving instruction concerning the feeble-minded, but such groups visit the school for this purpose nearly every week, on an average. These groups consist of from ten to one hundred students. The work is a legitimate part of the work of the staff of the school, and in order to accommodate these classes we are obliged to use the assembly hall or the schoolrooms. There is great need of a large lecture room especially arranged for this much-needed educational work, which is of so much importance to these future citizens, teachers, physicians, lawyers, legislators or public officials.

This report may well be closed with the following extract from a recent article by the writer: —

There is no panacea for feeble-mindedness. There will always be mentally defective persons in the population of every State and country. All of our experience in dealing with the feeble-minded indicates that if we are adequately to manage the individual defective we must recognize his condition while he is a child, and protect him from evil influences, train and educate him according to his capacity, make him industrially efficient, teach him to acquire correct habits of living, and, when he has reached adult life, continue to give him the friendly help and guidance he needs. These advantages should be accessible to every feeble-minded person in the State. Most important of all, so far as possible, the hereditary class of de-

fectives must not be allowed to perpetuate their decadent stock. The program for meeting the needs of these highly varied and heterogeneous groups must be as flexible and complex as the problem itself. It will be modified and developed as our knowledge and experience increases.

To sum up, the program now possible includes the mental examination of backward school children; the mental clinic; the traveling clinic; the special class; directed training of individual defectives in country schools; instruction of parents of defective children; after-care of special-class pupils; special training of teachers in normal schools; census and registration of the feeble-minded; extra-institutional supervision of all uncared-for defectives in the community; selection of the defectives who need segregation for institutional care; increased institutional facilities; parole for suitably institutionally trained adult defectives; permanent segregation for those who need segregation; mental examinations of persons accused of crime and of all inmates of penal institutions; and long-continued segregation of defective delinquents in special institutions.

WRENTHAM STATE SCHOOL.

Opened in June, 1907. Present capacity, 1,325.

Valuation of plant, per capita of capacity, \$897; real estate, \$707; personal, \$190.

Daily average number of patients, 1,224; increase for the year, 17.

Number Oct. 1, 1920, 1,222.

Finances.

Expenditures from maintenance funds, \$444,764; total receipts, \$5,655, being \$1,254 from private sources, \$1,609 from reimbursing patients, \$2,792 from other sources.

Weekly per capita cost of maintenance computed on net expenses, \$6.94.

Weekly per capita cost of whole service, \$1.97; ward service, \$0.66.

One person employed for every 8.26 patients; 1 nurse for every 17.54 patients.

Average monthly wage for all persons employed, \$69.68; for nurses, \$50.83; male ward service, \$51.25; female ward service, \$50.56.

The general statistics for the year are as follows:—

	Males.	Females.	Totals.
Remaining in institution Sept. 30, 1919,	517	689	1,206
Admitted within the year,	121	195	316
By commitment,	42	94	136
By transfer,	2	—	2
From visit,	32	59	91
Nominally from visit,	30	42	72
Nominally from escape,	15	—	15
Whole number of cases within year,	638	884	1,522
Dismissed within year,	137	163	300
Discharged,	56	66	122
Transferred,	2	—	2
Died,	8	7	15
On visit Sept. 30, 1920,	66	90	156
On escape Sept. 30, 1920,	5	—	5
Remaining in institution Sept. 30, 1920,	501	721	1,222

Daily average attendance for year: males, 508.412; females, 715.587; totals, 1,224.

Extract from Trustees' Annual Report.

Minimum requirements of such an institution as Wrentham are that it shall take good care of its property and of its charges, the former by economical management and productivity, the latter by proper clothing and feeding, comfortable housing, medical attention and keeping them from running away. We have a notion that for a considerable part of the public these items would answer for the maximum. That is to say, if these services were rendered, the institution would pass muster as a good one and worthy continued and liberal support.

But we are deeply conscious that more is demanded by that other public which has given Massachusetts a leadership in this business, by the officials of the Commonwealth who are devoted to the service of human helpfulness and far-reaching community gain, in all its implications, and, indeed, by all the citizens who pause to consider at all seriously what it is the State is trying to do for the mentally handicapped. It is enlightened and at the same time highly practical to demand that such an institution shall be a place of training, with a view to developing to the highest possible point the mental faculties and the physical abilities of the persons given to its charge. Such, indeed, should be the test of the value of its service.

To make report upon the accomplishment of any one year in the broader field of helpfulness to the inmates is difficult because it is not easily gauged. Advance in this direction is not tangible and the results are not statistical. Unless there has been some visible addition to the equipment for schooling and training, there can only be offered the general observation of the

spirit, the intent and the endeavor of the organization, and the assurance that a policy which is broader than custody and care is being successfully followed. Progress cannot be blocked off in yearly statements, and benefits which are individual cannot be measured in bulk. But progress can be claimed when it is shown that the school is utilizing all that the State has given in the way of equipment in making the lives of these dependents not only comfortable and measurably happy but useful, and promising, as far as may be, a return to freedom in the community.

The greatest advance is denoted when the population of such a school is no longer regarded as a distinct group, set apart and to be kept apart. It is only a portion of the community, made up of such members of it as need a peculiar care and a special effort for development. There is no warrant for thinking of these lives as hopelessly different in desires and impulses or even in needs, except so far as they have a limitation which must be overcome so far as it may be and within which there must be brought about the fullest possible culture. Not otherwise can it be called a school. Its pupils are hardly more than representative of the great number in the State as to many of whom there is no possibility of admission, and among whom there are many who may be so favored by home conditions as to work out a fair degree of usefulness. This is not the place, if conceivably there is any place, for commitment to mean a passing beyond the reach of a friendly interest.

Such estimate of the place and function of the school for the feeble-minded compels certain conclusions as to the duty of the Commonwealth and that of the institution. The first is as to the selection of the persons to be sent to it. There is no logic in the dependence upon the criminal courts for the discovery of the cases that need the institution's care. The so-called criminal act, the misbehavior which gets the attention of the police, is obviously not the proper prerequisite for such commitment. There is somewhat the same range of conduct among the mentally defective as among the normal. Neither the breach of the criminal code nor absence of a technical violation settles the need of special treatment. Moreover, the dependence upon this avenue tends to send the bad feeble-minded, even the atrociously bad, to what the State has named a school, and which it ought, in its own interest, to treat as a school. And it means the exclusion of those to whom school is the clearly indicated resort. Practically it gives a criminal color to the population which it does not deserve and which, as to the larger number of its inmates, is unwarranted.

If to any citizen there is a lack of definiteness in the term "defective delinquent," or a doubt as to the misplacing of that sort of person in a school for the feeble-minded, he can have it corrected by observation of the group in the Wrentham school which absorbs a most undue proportion of the energy of the workers there and defeats in no slight degree the effort to help the innocent, the helpable. If the criminal courts are to continue to be a chief point of embarkation for the feeble-minded school, there is needed a closer estimate of the fitness for its tuition, along with another outlet for the defective in whom a strong criminal slant persists.

Next, compliance with the design of such an institution clearly demands the provision by the State of the fullest equipment for training. The farm is largely relied upon, and its value is to be measured otherwise than in its fruitfulness, worthy as that is of consideration as a help to the burden of support. The indoor work of the children is likewise to be appraised for its benefits to them rather than on the basis of its relief to the cost of maintenance. But aside from these, there is the obligation, and a very great one, that the industrial training of the inmates shall be provided for as more than an incident, — indeed, should be made a major feature of the outfit, — for development of the individual. The Commonwealth has paid a welcome recognition of this duty in its appropriation during the past year for an industrial building, the first, we trust, of the group, or at least the pair, in which both boys and girls shall be trained in the direction that holds out the greatest promise for them, namely, the use of their hands to a point where mental handicap is practically overcome in manual efficiency.

Finally, the thought of the school in its best activity, that of making the most out of these lives for their sake, imposes the supreme duty on the administration and the corps of workers. For the evidence of the response in this quarter, we again make reference to the report of the superintendent and add as our best message to the State government the assurances that the high and practical purpose it reveals is given a daily and constantly progressing application in the treatment of our charges. Nothing, it seems to us, is a better testimonial to the success of the school and the merit of its management than that it is a busy and a happy place.

Activity, directed along useful lines, — work on the farm, in the industrial rooms, as well as a large sharing in the service work of the institution, — occupies the time of by far the larger number in the population and has its warrant both in the actual value of the work and in training and development. It would be difficult to say whether the occupation of time and thought in work or that spent in play, which is systematically directed, has the larger part in making the school so largely a place of joy. When the unhappy lot of the feeble-minded in the community, lacking supervision, is put in contrast to the general spirit of the school, some idea is gained of what is accomplished during the period of confinement there and of what is gained in developing the fitness for return to the community.

Extract from Superintendent's Annual Report.

The scope of work of a school for the feeble-minded is continually broadening. While the custodial feature must of necessity always be an important part of the work, the educational feature is constantly assuming greater importance. A few years ago schools for the feeble-minded made little attempt to return pupils to the community, but recently this work is receiving serious attention. With the State-wide policy of establishing special school classes in every school district of any size, the educational

side of institutional work must become of still greater importance. There are many feeble-minded children who, on account of nervous instability, will not be able to make proper progress in the special classes and for their own best development will be placed in the institution where their lives may be regulated twenty-four hours of the day. These children will be sent to the institution to be educated, and they must not be approached in the institution with the idea of making them custodial cases but with the idea of returning many of them to their homes and the community. More of the inmates now in institutions might be favorably considered for return to the community if their mental handicap had been earlier recognized in the public schools and they had been committed to the care of the institution before harmful anti-social habits had been formed or, that which is quite as serious, no useful habits of life established.

The establishment of these classes in the public schools guarantees that a large number of teachers, school physicians, and the general public will be informed on the subject of mental deficiency in children. This means that every effort will be made to educate the feeble-minded child in the public school, but it also insures an increased demand for institutional care and training of the feeble-minded. The obviously custodial type of feeble-minded, whose only happiness can be found in institutional life, will be classified and sent to the institution earlier. The feeble-minded child with grave character defects will also be recognized earlier and sent to the institution for training before he has had an opportunity to become delinquent.

If the institution keeps pace with the awakening interest in the feeble-minded in this State, it must become more highly specialized in its activities. The institution must not be made the repository of the misfits of the community. The individual with the psychopathic personality, the criminal and the defective delinquent should not be committed to an institution for the feeble-minded even though his intelligence rating may be below normal. The presence of these classes in an institution for the feeble-minded, although they may be relatively few in number, prevents the institution from functioning as it should in the care and training of the feeble-minded children. A staff of officers, teachers and attendants, trained in the proper ideals and methods for successful teaching and caring for the feeble-minded, have their energy sapped, their efforts minimized, and their enthusiasm lessened in trying to combat the anti-social and deadening influence of these defective delinquent and pathological classes.

The applications for admission of the adolescent and adult males have been relatively few during the last four years, but have increased in number the last three months of the present year. The reverse has been true in application for admission of girls of the same ages. During the great financial prosperity of the past four years the demand for the care and protection of the adolescent and adult feeble-minded girl has been most persistent, and in almost every instance the immediate reason for the application has been sex delinquency. The reason for application for the adult or adolescent feeble-minded male is frequently on account of his

tendency to larceny and petty crime. The adult male during periods of prosperity is usually able to maintain himself in an acceptable manner in the community. It is not so, however, with the feeble-minded girl. The more prosperous the financial conditions, the greater latitude she has. She is freely given employment where she would not be considered in times of financial depression or moderate prosperity; her environment is thus broadened and her temptations correspondingly increased.

THE HOSPITAL COTTAGES FOR CHILDREN

opened in June, 1882. This is a private institution for which the Governor appoints five trustees in addition to those selected by the corporation. It is maintained from the income of private funds, donations and the board of patients. State and town charges are received for \$4 a week, although the weekly cost of support is considerably in excess of this amount.

In consideration of this service, the State has, from time to time, appropriated money for buildings and improvements. It is subject to supervision by the Department of Mental Diseases.

The general statistics for the year are as follows: —

Patients in the hospital Oct. 1, 1919,	96
Admitted within the year,	68
Whole number of cases within the year,	164
Dismissed within the year,	60
Number remaining Sept. 30, 1920,	104
The largest number on any day,	114
The smallest number on any day,	95
The average for the year,	109

THE PRIVATE INSTITUTIONS.

THE McLEAN HOSPITAL.

Opened in October, 1818. Present capacity, 220.

Daily average number of patients on books, 211; in hospital, 206; on visit or escape, 5.

Number on books Oct. 1, 1920, 212; in hospital, 206; on visit or escape, 6.

All admissions, 86.

Admissions as insane, 80.

First cases of insanity, 51.

Voluntary admissions, 57.

Commitments as inebriates, 1.

Temporary-care admissions, 9.

Extract from Superintendent's Annual Report.

During the year we have complied with the act of the Legislature, which requires the hospital, if it continues to rank as a charitable institution and be exempt from taxation, to take one-quarter of its patients free. Such compliance with this law has inflicted hardships upon many members of the community who have needed such care and treatment as the hospital provides.

Inasmuch as the hospital has no funds of any consequence and depends for its maintenance largely or almost entirely upon its income from patients it has necessitated an increase of the rates charged to all paying patients. To most of them it has been a severe burden, and in many cases one which could not be borne, and has compelled their removal to other hospitals. Among these were people of small income, able to pay something and therefore not in a position to be called indigent. In certain cases the friends and relatives of patients who were actually indigent and entitled within the law to free care were opposed to accepting charity beyond their need, and refused to make use of the hospital when they could not be received at such rates as they could pay. The financial situation has made it necessary that every patient, not counting as a free patient, must pay somewhat more than cost.

The hospital has always filled a special need in the community, standing as it has between the small private institutions, where the rates are high, and the State hospitals. In it the average representative citizen has found a refuge. Compliance with the above-mentioned law has practically closed the hospital doors to this large and deserving class, since many of them cannot afford the advanced rates necessarily charged to paying patients, and cannot, because they have some small means, or will not, because they have too great pride, consider themselves indigent. It hardly seems possible that the Legislature could have intended any such result. Limited as the hospital is in its income from funds, the law, practically interpreted, says that any patient going to McLean Hospital must either be indigent or be able to pay not only for his own care but also for a portion of that of some other patient.

OTHER PRIVATE LICENSED INSTITUTIONS.

Number, 21. On Sept. 30, 1920, there were under care of these institutions 303 patients; the insane numbered 152. There were 252 admissions of the insane, and 265 dismissals during the year.

The numbers on Sept. 30, 1920, are set forth in the following tabulation:—

NUMBER OF PATIENTS SEPT. 30, 1920.

	TOTALS.			INSANE.			SAFE, VOL- UNTARY.			INEBRIATE.			FEEBLE- MINDED.			TEMPORARY CARE.			NON- MENTAL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Bournewood, George H. Torney, M.D.,	4	10	14	4	8	12	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Channing Sanitarium, Walter Channing, M.D.,	8	25	33	3	11	14	4	9	13	—	—	—	—	—	—	—	—	—	1	5	6
Herbert Hall Hospital, Walter C. Haviland, M.D.,	4	17	21	3	17	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Wiswall Sanatorium, Harry O. Spalding, M.D.,	5	30	35	2	27	29	3	—	3	—	—	—	—	—	—	—	—	—	3	3	6
Sherwood, J. F. Edgerly, M.D.,	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Highland Hall, Samuel L. Eaton, M.D.,	1	7	8	1	3	4	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Dr. Reeves Nervine, Harriet E. Reeves, M.D.,	1	13	14	1	7	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ring Sanatorium and Hospital, Inc., Arthur H. Ring, M.D.,	11	40	51	7	32	39	1	1	2	2	—	—	—	—	—	—	—	—	1	5	6
Dr. Mellus' Private Hospital, Edward Mellus, M.D.,	7	9	16	7	8	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Glenste, Mabel D. Ordway, M.D.,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Krollwood, Earle E. Bessey, M.D.,	—	7	7	—	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bellevue, Mary W. L. Johnson, M.D.,	—	3	3	—	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Private Hospital, Frederick L. Taylor, M.D.,	7	1	8	—	—	—	—	—	—	6	1	7	—	—	—	—	—	—	1	—	—
Washington Home, Hugh Barr Gray, M.D.,	3	—	3	—	—	—	—	—	—	3	—	3	—	—	—	—	—	—	—	—	—
Elm Hill Private School and Home for the Feeble-minded, George A. Brown, M.D.,	27	11	38	—	—	—	—	—	—	—	—	—	27	11	38	—	—	—	—	—	—
Private School, Miss Elizabeth L. Moulton,	—	2	2	—	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—	—	—
Standish Manor, Miss Alice M. Belden,	—	15	15	—	—	—	—	—	—	—	—	—	—	15	15	—	—	—	—	—	—
Terrace Home School, Mrs. Frances Herrick Doyle,	—	6	6	—	—	—	—	—	—	—	—	—	—	6	6	—	—	—	—	—	—
Hillbrow School, Miss Alice Shovelton,	5	1	6	—	—	—	—	—	—	—	—	—	5	1	6	—	—	—	—	—	—
Private School, Miss Caroline L. Schofield,	—	3	3	—	—	—	—	—	—	—	—	—	—	3	3	—	—	—	—	—	—
Woodlawn Sanitarium, Harry W. Hammond, M.D.,	3	5	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	5	8
Totals,	89	214	303	28	124	152	8	13	21	11	1	12	33	40	70	—	1	1	9	35	44

UNLICENSED HOMES.

Supervision was continued of unlicensed homes where the insane, feeble-minded, epileptic and persons addicted to the intemperate use of narcotics or stimulants are likely to be found.

FAMILY CARE OF THE INSANE.

UNDER DEPARTMENT OF MENTAL DISEASES.

First patient boarded in a family Aug. 10, 1885. Since placed, 1,278 different patients.

Number in families Oct. 1, 1920, 34 women.

There were no admissions within the year.

Daily average number for the year, 35, a decrease of 6.

Number of families having patients, 15, a decrease of 2, — 5 families having 1 patient; 4 families, 2; 3 families, 3; 3 families, 4.

Number of cities and towns in which patients are boarded, 4, an increase of 1.

The general statistics for the year are as follows: —

	1920.			INCREASE FOR THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Remaining Sept. 30, 1919,	-	38	38	-	6 ¹	6 ¹
Admitted within the year,	-	-	-	-	-	-
Whole number of cases within the year,	-	38	38	-	6 ¹	6 ¹
Dismissed within the year,	-	3	3	-	3 ¹	3 ¹
Viz.: Transferred to institutions,	-	3	3	-	2 ¹	2 ¹
Unsuitable,	-	1	1	-	3 ¹	3 ¹
Temporarily,	-	2	2	-	2	2
Ill,	-	-	-	-	1 ¹	1 ¹
Transferred to family care by trustees,	-	-	-	-	1 ¹	1 ¹
Died,	-	1	1	-	1	1
Remaining Sept. 30, 1920,	-	34	34	-	4 ¹	4 ¹
Viz.: Supported by State,	-	32	32	-	5 ¹	5 ¹
Private,	-	1	1	-	-	-
Self-supporting,	-	1	1	-	1	1

¹ Decrease.

	1920.			INCREASE FOR THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Number of different persons within the year,	-	38	38	-	6 ¹	6 ¹
Number of different persons admitted,	-	-	-	-	-	-
Number of different persons dismissed,	-	4	4	-	2 ¹	2 ¹
Daily average number,	-	35.44	35.44	-	5.16 ¹	5.16 ¹
State,	-	33.44	33.44	-	5.88 ¹	5.88 ¹
Reimbursing,	-	-	-	-	.28 ¹	.28 ¹
Private,	-	1.00	1.00	-	-	-
Self-supporting,	-	1.00	1.00	-	1.00	1.00

¹ Decrease.

The total weekly per capita expenditures of the State on account of patients in private families for the year ending Nov. 30, 1920, and since Oct. 1, 1889, are shown as follows:—

	Fiscal Year ending Nov. 30, 1920.	Since Oct. 1, 1889.
Payments for board,	\$6,147 07	\$705,596 63
Average number of patients, exclusive of private patients,	33.76	174.66
Weekly per capita cost of board,	\$3 50	\$2 57
Payments for extra clothing, not included in board rate,	\$31 31	\$2,724 93
Payments for medical attendance, etc., not included in board rate,	\$6 00	\$4,751 64
Weekly per capita cost of such expenses, outside of board rate,	\$0 02	\$0 02
Weekly per capita cost of support (being cost of board, clothing, medical attendance, etc.).	\$3 52	\$2 60
Payments for supervision (being transportation, salaries and expenses of visitors).	\$1,934 53	\$94,026 88
Average number of patients,	34.76	180.67
Weekly per capita cost of supervision,	\$1 07	\$0 37
Weekly per capita cost of support and supervision,	\$4 59	\$2 98

UNDER TRUSTEES.

The trustees of institutions were authorized, by chapter 458 of the Acts of 1905, to place their patients in the care of private families under substantially the same conditions as the Department of Mental Diseases.

First patient boarded June 13, 1905. Since placed, 961 different patients.

Number in families Oct. 1, 1920, 182, — 15 men and 167 women.

Placed during the year, 112 persons, a decrease of 11.

Daily average number for year, 199.

Number of families having patients, 110, a decrease of 14, — 72 families having 1 patient each; 16 families, 2; 11 families, 3; 10 families, 4; 1 family, 5.

Number of towns in which patients are boarded, 54, a decrease of 15. Largest number of patients in any one town, 23; of families, 11.

The general statistics for the year are as follows: —

Family Care by Institutions.

	Worcester Hospital.	Taunton Hospital.	North- ampton Hospital.	Danvers Hospital.	West- borough Hospital.	Boston Hospital.	Grafton Hospital.	Medfield Hospital.	Gardner Colony.	Totals.
Remaining Sept. 30, 1919,										
Men,	35	31	20	23	25	8	12	15	47	216
Women,		5	3	—	—	—	1	3	11	24
	34	26	17	23	25	8	11	12	36	192
Admitted within the year,										
Men,	12	2	6	6	18	7	—	3	58	112
Women,	—	—	2	—	—	—	—	—	22	24
	12	2	4	6	18	7	—	3	36	88
Whole number of cases within the year,	47	33	26	29	43	15	12	18	105	328
Dismissed within the year,										
Men,	22	8	16	8	20	7	3	8	54	146
Women,	1	1	4	—	—	—	—	3	24	33
Viz.: Returned to institutions,	21	7	12	8	20	7	3	5	30	113
Men,	20	6	11	8	17	7	3	6	51	129
Women,	1	1	1	—	—	—	—	—	24	29
Discharged,	19	5	10	8	17	7	3	4	27	100
Men,	—	—	2	—	—	—	—	2	2	6
Women,	—	—	1	—	—	—	—	1	—	2
Died,	—	—	1	—	—	—	—	1	—	1
Men,	—	—	1	—	—	—	—	—	—	1
Women,	—	—	—	—	—	—	—	—	—	—
On visit Sept. 30, 1920,	2	2	1	—	3	—	—	—	1	9
On escape Sept. 30, 1920,	—	—	1	—	—	—	—	—	—	1
Remaining Sept. 30, 1920,										
Men,	25	25	10	21	23	8	9	10	51	182
Women,	—	4	1	—	—	—	1	—	9	15
Supported by the State,	25	21	9	21	23	8	8	10	42	167
Private,	16	15	7	17	17	2	9	10	29	122
Self-supporting,	4	1	3	4	6	3	—	—	1	22
	5	9	—	—	—	3	—	—	21	38
Daily average number,										
Men,	28.91	25.94	15.55	23.77	25.96	9.28	10.43	11.98	47.56	199.38
Women,	—	4.03	2.03	—	—	—	1.00	1.42	10.80	19.36
State,	28.83	21.91	13.52	23.77	25.96	9.28	9.43	10.56	36.76	180.02
Private,	20.82	15.91	11.59	20.13	21.73	5.84	10.43	10.56	28.39	143.40
Self-supporting,	4.67	1.03	3.00	2.94	4.23	2.87	—	—	1.00	19.74
	3.42	9.00	.96	.70	—	.57	—	1.42	20.17	36.24

THE DEPARTMENT.

PROCEEDINGS.

Eleven meetings of the members of the Department were held during the year.

Thirty-five visits of inspection were made by the director and members of the Department, in addition to 317 visits by the assistants to the director, pathologist, assistant pathologist, financial agent and director of social service.

Eleven visits were made to the institutions relative to deportation matters by the assistants to the director.

Ninety-two visits relative to matters of support were made to the institutions by agents of the support department.

Careful attention has been paid to all complaints as to commitment, discharge, death or treatment of patients.

PLANS AND SPECIFICATIONS

for new construction and additions to existing buildings were examined and approved.

ESTIMATES OF STATE EXPENSES FOR 1920

as approved on account of the mentally sick, the feeble-minded and the epileptic, amount to \$9,735,417.73, excluding estimates for the maintenance of the mental wards of the State Infirmary and Bridgewater State Hospital, whose estimates are inseparable from those of the institutions as a whole, the State Infirmary being supervised by the Department of Public Welfare, and the Bridgewater State Hospital by the Department of Correction.

These estimates comprise estimates by the Department of Mental Diseases and by the State institutions.

ESTIMATES FOR STATE INSTITUTIONS

relate to (1) maintenance expenses, inclusive of repairs and improvements, and (2) special expenses for new buildings, additions, new furnishings and equipment in the main.

ESTIMATES FOR MAINTENANCE EXPENSES

as requested by the trustees of the institutions, and the amounts as approved by the Department of Mental Diseases, appear in the following tabulation:—

Estimates for Maintenance Expenses, 1921.

	Requested by Trustees.	Recommended by Department.
Boston Psychopathic Hospital,	\$277,048 80	\$240,710 38
Boston Hospital,	1,039,750 13	827,985 00
Danvers Hospital,	764,893 10	608,305 00
Foxborough Hospital,	353,211 98	282,760 00
Gardner Colony,	440,981 53	361,136 50
Grafton Hospital,	699,402 00	552,600 00
Medfield Hospital,	757,878 10	624,775 00
Northampton Hospital,	478,127 57	371,400 00
Taunton Hospital,	620,293 19	515,480 00
Westborough Hospital,	661,981 84	523,640 00
Worcester Hospital,	971,496 99	769,795 00
Monson Hospital,	485,145 40	405,630 00
Massachusetts School for the Feeble-minded,	775,782 53 1,627 00	609,320 00 1,627 00
Wrentham School,	599,230 05	493,725 00
Totals,	\$8,926,850 21	\$7,188,888 88

ESTIMATES FOR SPECIAL APPROPRIATIONS

for the State institutions under the supervision of the Department have been prepared and are classified below:—

Boston State Hospital.

Constructing and furnishing administration

building and staff quarters,	\$250,000 00
To complete home for 90 nurses,	15,200 00
To complete dining room, West Group,	14,100 00
To complete male infirmary,	3,595 80
Retaining wall, dining room, East Group,	28,000 00
Addition to refrigerating room and additional refrigerating machinery,	34,500 00
Repairs to sewer, West Group,	7,500 00
Addition to laundry building and new machinery,	20,500 00

\$373,395 80

Danvers State Hospital.

Changes in electrical, refrigerating and lighting plants, . . \$78,837 00

Foxborough State Hospital.

Constructing and furnishing building to accommodate 100 male patients,	\$212,000 00	
Constructing and furnishing male infirmary building to accommodate 100 patients,	212,000 00	
Constructing and furnishing administration building,	170,000 00	
Renovation of Ward E to accommodate 75 patients,	15,000 00	
Constructing barn,	40,000 00	
	<hr/>	649,000 00

Gardner State Colony.

Constructing and furnishing hospital building for 75 patients,	196,400 00
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Grafton State Hospital.

Constructing cow barn,	\$13,000 00	
Constructing hay barn,	9,000 00	
Constructing and furnishing cottage for married officer,	5,000 00	
	<hr/>	27,000 00

Medfield State Hospital.

Purchase of land and buildings,	18,000 00
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Taunton State Hospital.

Construction of bridge over and dam on Mill River,	\$24,000 00	
Purchase of land and buildings,	10,000 00	
	<hr/>	34,000 00

Westborough State Hospital.

Renovation of wards 4, 5 and 6,	\$75,000 00	
Spur track and coal trestle,	70,000 00	
	<hr/>	145,000 00

Worcester State Hospital.

Constructing and equipping cold-storage building,	\$89,400 00	
Alterations in kitchen building,	20,700 00	
Construction of fireproof stair wells,	11,000 00	
Alterations in old heating shaft, Summer Street Department,	21,000 00	
	<hr/>	142,100 00

Massachusetts School for the Feeble-minded.

Constructing and furnishing four cottages for married officers,	\$20,000 00	
Constructing and furnishing employees' cottage,	21,000 00	
Equipment for furnishing electricity at Templeton Colony,	15,000 00	
	<hr/>	\$56,000 00

Wrentham State School.

Constructing and furnishing assembly hall,	\$134,000 00	
Constructing and furnishing industrial building for boys,	66,000 00	
Constructing and furnishing home for officers,	94,000 00	
	<hr/>	294,000 00

School for Feeble-minded in Western Part of State.

Constructing and furnishing two employees' cottages (\$21,000 each) to accommodate 20 each,	\$42,000 00	
Constructing and furnishing custodial building for 140 inmates,	190,000 00	
Constructing and furnishing dormitory building for 105 inmates,	140,000 00	
For renovation and heating installation of old farmhouse,	5,000 00	
Continuation of road work and grading,	10,000 00	
	<hr/>	387,000 00
Total,		\$2,400,732 80

ESTIMATES BY THE MASSACHUSETTS DEPARTMENT OF
MENTAL DISEASES.

1. Personal services,	\$77,040 00
2. Office supplies and equipment,	5,017 75
3. Traveling and other expenses,	18,738 30
4. Transportation and medical examination,	8,000 00
5. Support of insane paupers boarded in families,	8,000 00
6. Support of State paupers in Hospital Cottages for Children,	22,000 00
7. Psychiatric Institute, — investigation as to the nature, causes, results and treatment of mental diseases and defects, and the publication of the results thereof,	7,000 00
	<hr/>
	\$145,796 05

FINANCIAL STATEMENT.

STATEMENT OF APPROPRIATIONS MADE TO THE DEPARTMENT FOR THE
FISCAL YEAR ENDING NOV. 30, 1920.

	Appropriations.	Amount expended.	Balance.
Traveling, office and contingent expenses, . . .	\$18,799 09 ¹	\$14,533 76	\$4,265 33
Salaries and wages of officers and employees, . . .	75,695 00	68,894 73	6,800 27
Transportation and medical examination of State charges, . . .	8,205 09 ²	5,822 76	2,382 33
Support of State charges boarded out in families, . .	7,500 00	6,184 38	1,315 62
Support of State charges in Hospital Cottages for Children, . . .	12,370 00	12,114 14	255 86
For an investigation as to the nature, causes, results and treatment of mental diseases and defects, and the publication of the results thereof, . . .	8,426 10 ³	7,315 94	1,110 16
	\$130,995 28	\$114,865 71	\$16,129 57

¹ Transferred from balance of 1919, \$1,665.83; refunds, \$133.26; making a total of \$1,799.09.² Refunds, \$205.09.³ Transferred from balance of 1919, \$426.10.STATEMENT OF RECEIPTS AND DISBURSEMENTS OF THE DEPARTMENT
FOR THE YEAR ENDING NOV. 30, 1920.*Receipts.*

Payable to State Treasurer:—

For support of patients in Hospital Cottages for Children,	\$17 14
Refunds on appropriations,	443 35
Licenses for private institutions,	1,350 00
Treatments for syphilis,	147 10
Interest on bank account,	229 69
Total payable to State Treasurer,	\$2,187 28

Payable to State institutions:—

For support of patients in—

Worcester Hospital,	\$34,411 38
Taunton Hospital,	15,417 07
Northampton Hospital,	22,849 05
Danvers Hospital,	20,306 00
Westborough Hospital,	13,048 66
Boston Hospital,	32,823 79
Grafton Hospital,	9,122 54
Medfield Hospital,	11,378 37
Gardner Colony,	3,234 00
Monson Hospital,	2,975 29

Payable to State institutions — *Con.*

For support of patients in — *Con.*

Foxborough Hospital,	\$8,225 30
Massachusetts School for the Feeble-minded,	3,900 63
Wrentham School,	1,141 31
State Infirmiry,	1,254 55
State Farm,	2,343 76

Total payable to State institutions,	\$182,431 70
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Total receipts,	\$184,618 98
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Disbursements.

Paid State Treasurer,	\$2,187 28
Paid State institutions,	182,431 70

Total disbursements,	\$184,618 98
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FAMILY CARE OF THE INSANE.

Under chapter 504, section 71, of the Acts of 1909 the Department is authorized to place in private families certain suitable inmates of the institutions under supervision. For a full report of this work as conducted by the Department and by the trustees of certain institutions, see page 112.

THE SUPPORT DIVISION.

The function of this Division is to ascertain whether the patients committed to the various State hospitals for mentally ill, and also the institutions for the epileptic and feeble-minded, as public charges, have a legal right to remain in said institutions. If they are aliens and have no such right, and have landed in the United States within five years of their commitment, investigation is made as to their liability to deportation under the United States immigration laws, and the result of such investigation is reported to the Department. If in the United States more than five years and in Massachusetts less than five years, such aliens are reported for deportation by this Department. "The Department may also remove any pauper inmates of institutions under its supervision who are not subject to the orders of a court to any country, State or place where they belong." If native born and having no

claim upon this Commonwealth for support, investigation is made to determine upon what State, if any, they have a claim, and when so determined this is also reported to the Department for action.

The financial condition of those entitled to remain is investigated, and if there are means legally available and sufficient to warrant it, the patient is reported to the hospital, to be supported privately at a rate to be determined by the hospital authorities. If the means are not sufficient for that purpose, a reimbursing rate may be made by this Division and submitted to the Department for approval.

By agreement, institutions under this Department care for war-risk beneficiaries under commitment, being reimbursed for the same. This has markedly increased the work of this Division.

The following is a report of the work of this Division for the year ending Nov. 30, 1920:—

Visits to the hospitals,	91
Histories taken at the hospitals,	2,647
Visits to relatives of patients and others for investigation,	1,610
Cases submitted for deportation by the United States Commissioner of Immigration,	53
Cases submitted for deportation by the Department,	153

Support Cases, not including Soldiers and Sailors.

Cases pending Nov. 30, 1919,	396
New cases,	815
	— 1,211
Made private,	132
Made reimbursing,	305
Accepted as State charges,	465
Pending Nov. 30, 1920,	309
	— 1,211

Private Cases.

Cases pending Nov. 30, 1919,	28
New cases reported to hospitals,	121
	— 149
Reported by hospitals as having been made private,	132
Made reimbursing,	3
Dropped — accepted as State charges,	6
Pending Nov. 30, 1920,	8
	— 149

Reimbursing Cases.

Cases remaining Nov. 30, 1919,	870	
New cases,	313	
	—	1,183
Made private of the above,	4	
Died,	115	
Discharged or on visit Nov. 30, 1920,	141	
Dropped — accepted as State charges,	37	
Remaining in hospitals Nov. 30, 1920,	886	
	—	1,183

Soldier and Sailor Cases.

Cases remaining Nov. 30, 1919,	111	
New cases (American, 260; Canadian, 10),	270	
	—	381
Died,	9	
Discharged or on visit,	183	
Transferred to other institutions,	21	
Rejected,	13	
Remaining in hospitals Nov. 30, 1920,	150	
	—	381

This report shows 16 more reimbursing cases and 39 more soldier cases remaining in the hospitals Nov. 30, 1920, than there were Nov. 30, 1919, which is a net gain of 54 cases.

Number and Board Rates of Reimbursing Patients for the Year ending Oct. 1, 1920.

INSTITUTIONS.	DAILY AVERAGE NUMBER.		Average Weekly Per Capita Rate.	NUMBER OCT. 1, 1920.		UNITED STATES DEPARTMENT CASES.		SOLDIER CASES.	
	Males.	Females.		Males.	Females.	Daily Average Number.	Average Weekly Per Capita.	Daily Average Number.	Average Weekly Per Capita.
Worcester Hospital,	34.81	68.66	\$4.20	24	68	8.67	\$14.00	10.23	\$11.83
Taunton Hospital,	35.34	43.50	4.12	26	47	-	-	5.47	14.00
Northampton Hospital,	27.95	55.88	3.66	25	51	-	-	11.24	13.51
Danvers Hospital,	32.71	112.45	4.07	37	115	-	-	5.71	12.46
Westborough Hospital,	19.07	85.92	4.13	18	75	-	-	7.59	14.00
Boston Hospital,	21.56	106.32	4.11	22	114	.17	14.00	20.56	12.88
Grafton Hospital,	20.95	35.16	4.43	15	18	-	-	3.18	12.25
Medfield Hospital,	17.48	29.83	4.79	8	35	1.02	14.00	6.58	14.00
Monson Hospital,	15.43	25.69	3.52	16	21	-	-	.65	14.00
Gardner Colony,	2.49	3.99	3.35	5	6	-	-	.89	13.02
Mental wards, State Infirmary,	-	5.48	4.69	1	6	-	-	-	-
Foxborough Hospital,	10.24	10.90	4.59	11	10	1.23	14.00	1.57	14.00
Bridgewater Hospital,	4.23	-	4.67	4	-	-	-	1.25	14.00
Massachusetts School for the Feeble-minded,	5.85	18.12	4.37	16	18	-	-	-	-
Wrentham School,	3.59	9.42	2.30	4	6	-	-	-	-
Family care,	-	-	-	-	-	-	-	-	-
Hospital Cottages,	-	-	-	-	-	-	-	-	-
Totals,	251.70	611.32	\$4.10	233	590	11.09	\$14.00	74.92	\$13.09

Receipts for Support of Reimbursing Patients.

LOCATION OF PATIENTS.	Year ending Nov. 30, 1919.	Year ending Nov. 30, 1920.	Total since Jan. 1, 1904.
Worcester Hospital,	\$24,000 62	\$47,868 11	\$223,756 68
Taunton Hospital,	16,307 03	25,329 20	240,534 87
Northampton Hospital,	17,594 93	35,380 19	254,987 49
Danvers Hospital,	31,578 89	43,768 06	397,394 10
Westborough Hospital,	23,756 33	27,878 84	264,868 90
Boston Hospital,	27,579 41	49,501 10	228,065 04
Grafton Hospital,	13,305 75	14,741 64	137,462 33
Medfield Hospital,	11,003 24	17,490 87	158,420 30
Monson Hospital,	7,028 27	7,719 09	64,596 68
Gardner Colony,	11,072 27	4,084 06	25,422 30
Mental wards, State Infirmary,	1,382 00	1,254 55	18,101 60
Bridgewater Hospital,	743 00	2,343 76	14,012 54
Foxborough Hospital,	3,252 17	10,581 59	33,151 07
Massachusetts School for the Feeble-minded,	3,073 60	6,535 78	26,104 03
Wrentham School,	521 68	1,684 64	7,822 43
Hospital Cottages,	—	17 14	690 51
Family care,	41 67	—	14,058 99
Foxborough labor,	—	—	3,370 45
Almshouses,	—	—	923 66
Totals,	\$182,240 81	\$296,178 62	\$2,213,743 97

DEPORTATIONS.

There were considered for deportation 627 cases, compared with 652 for the previous year. This Department deported 80 to other States, 21 to other countries, — in all, 101. In addition, the United States Immigration Commissioner deported 65. Altogether, 166 have been deported since Dec. 1, 1919.

Since Oct. 1, 1898, 2,728 persons have been deported by this Department, of whom 89 returned once, 12 twice and 3 three times. Of those returning, 14 are now in institutions in this State.

Details of the disposition of cases under consideration for deportation are shown in the following table: —

	COMMISSION.			UNITED STATES IMMIGRATION COMMISSIONER.			TOTALS.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	1919.	1920.	Increase.
Cases pending Nov. 30, 1919,	190	47	237	110	58	168	300	105	405	394	405	11
Since reported,	117	54	171	19	32	51	136	86	222	258	222	361
Total cases under consideration,	307	101	408	129	90	219	436	191	627	652	627	251
Deported,	70	31	101	35	30	65	105	61	166	158	166	8
Viz.: Other States,	53	27	80	—	—	—	53	27	80	93	80	131
Other countries,	17	4	21	32	28	60	49	32	81	61	81	20
Special cases not landed under immigration laws, and pending deportation,	—	—	—	3	2	5	3	2	5	4	5	1
Discharged,	21	12	33	6	5	11	27	17	44	51	44	71
Viz.: Care of friends,	12	12	24	3	5	8	15	17	32	45	32	131
Escaped,	6	—	6	3	—	3	9	—	9	4	9	5
Returned to penal institutions,	3	—	3	—	—	—	3	—	3	2	3	1
Died,	8	1	9	2	4	6	10	5	15	18	15	31
Withdrawn,	—	—	—	10	4	14	10	4	14	8	14	6
Viz.: Private patients,	—	—	—	—	—	—	—	—	—	2	2	21
Rejected by Immigration Commissioner,	—	—	—	7	1	8	7	1	8	6	8	2
Deportation arranged by friends,	—	—	—	3	3	6	3	3	6	—	6	6
Dropped from further consideration,	8	4	12	—	—	—	8	4	12	14	12	21
Viz.: Impracticable to deport,	2	2	4	—	—	—	2	2	4	12	4	81
No place to go,	6	2	8	—	—	—	6	2	8	2	8	6
Total cases closed,	107	48	155	53	43	96	160	91	251	249	251	2
Cases pending Nov. 30, 1920,	200	53	253	76	47	123	276	100	376	405	376	291
Viz.: Not in condition to deport,	1	2	3	—	—	—	1	2	3	6	3	31
Awaiting action,	44	16	60	60	37	97	104	53	157	104	157	53
Delayed because of war conditions,	128	23	151	—	—	—	128	23	151	227	151	761
Under sentence,	5	—	5	—	—	—	5	—	5	2	5	3
On visit,	12	11	23	5	10	15	17	21	38	40	38	21
On escape,	10	1	11	11	—	11	21	1	22	26	22	41

1 Decrease.

THE FINANCIAL DIVISION.

The following is submitted as the report of the Financial Division for the year ending Nov. 30, 1920.

There was expended by the Department of Mental Diseases for office expenses, travel, transportation, board of patients, etc., \$114,865.71; for construction work at the institutions, \$643,448.06 (special appropriations); and by the institutions for maintenance, \$7,155,123.27, making a total expenditure of \$7,913,437.04. The receipts by the Department were \$2,187.28, and by the institutions \$652,719.62, making a total of \$654,906.90.

The Legislature of this year appropriated to this Department the sum of \$875,192 for new buildings and repairs.

COMBINED PURCHASING.

Throughout the year the regular monthly meetings of the stewards have been held, and a large number of special meetings. The stewards as a body visited a number of the institutions and from these visits much benefit was derived.

Until September, when the market broke, conditions had been the same as during previous years from the beginning of the World War. However, consideration of additional items for combined purchasing was given attention, with the result that the two very large items of consumption — fresh beef and fresh fish — were standardized, specifications made, bids received and contracts awarded at very advantageous figures. The period of contract for fresh beef is one month, while that for fresh fish is for six months, the summer and winter seasons. Another large item of consumption handled in like manner is dried fruits.

Our chemist, Mr. Harold K. Wilder, who had served with us one year, resigned Nov. 30, 1920, having received an appointment at a salary which the Commonwealth could not duplicate. The Department has appointed Miss Anna D. Truitt to fill this vacancy, her services to begin Dec. 1, 1920. Owing to the increase in the number of articles to be analyzed, the Department in its budget estimate for the year 1921 felt compelled to ask for an increase in the personnel of the laboratory and the creation of a new position.

RATION ALLOWANCE.

The third year of the application of the ration allowance in the institutions has further demonstrated its value as a basis for determining food requirements for budget purposes. Quarterly reports on quantities consumed, when reduced to proteins, fats, carbohydrates and calories, have shown that the allowance is fully sufficient to meet the needs of the various types of patients and employees. Following is the ration allowance for 1920:—

Ration Allowance per Patient.

	Ounces per Day.	Ounces per Year.	Pounds per Year.	Commercial Units used.
Farinaceous food:—				
Flour, 9.50	13.87	3,467.50	216.71	1.105 ¹
Other, 4.37		1,595.05	99.69	99.69 ²
Meats and fish,	8.75	3,193.75	199.61	199.61 ²
Butter,	1.37	500.05	31.25	31.25 ²
Cheese, . . . . .	.30	109.50	6.87	6.87 ²
Coffee, . . . . .	.44	160.60	10.03	10.03 ²
Tea, . . . . .	.12	43.80	2.73	2.73 ²
Milk,	1.25 ³	456.24 ³	—	228.12 ⁴
Eggs, . . . . .	.50	182.50 ⁵	—	15.208 ⁶
Sugar,	1.90	693.50	43.343	43.343 ²
Potatoes,	9.50	3,467.50	216.71	216.71 ²

Fruit, 1½ cents per day per capita.

Not listed on ration allowance, 1½ cents per day per capita.

¹ Barrels.

² Pounds.

³ Pints.

⁴ Quarts.

⁵ Eggs.

⁶ Dozen.

FARM.

The season of 1920 was opened by the farm supervisor with a three days' meeting held in March at the Massachusetts Agricultural College. This meeting was attended by head farmers as well as superintendents and stewards from all the institutions under the supervision of this Department. An invitation was extended to all institutions of the State, and all were asked to co-operate. The faculty of the college furnished

a most excellent and instructive program, particularly adapted to State institutions. Reports by committees on different departments of farm activities, such as dairy herd, swine management, poultry management, vegetable gardening, good seeds, orchard management, spraying and spraying materials were made and later circulated to all interested.

Garden Crops. — Increased acreage over and above that required for use in season was planted that all surplus crops might be conserved by canning or dehydrating. The first year of dehydrating on any scale has proved very successful, and when proper apparatus is installed in all institutions the dietary will be increased throughout the winter season by fruits and vegetables thus treated.

Dairy. — The improved milk production both in total quantity and average per cow is worthy of note, as shown by the following table: —

	1919.	1920.
Average number of cows,	813.30	772.70
Total quarts milk,	2,956,631.22	2,975,648.70
Average production per cow in pounds,	7,815.89	8,279.59

The fight against tuberculosis is being made with increased energy, and the policy of semi-annual tests, directly supervised by the Division of Animal Industry has been instituted.

Swine. — By careful inoculation, hog cholera has been practically eliminated. Pure-bred males and females have been introduced which has greatly improved the stock.

Poultry. — Many of the poultry plants have not come up to the standard in dressed fowl and egg yield, as desired by the Department. The farm supervisor is making special study of these plants that the Department may determine what action shall be taken.

Field Crops. — Short rotation of crops has increased yield per acre. More clover and roots have been grown, with the result of increased milk production and lessening of the cost.

SPECIAL APPROPRIATIONS.

The year 1920 has been the most unfavorable for construction that the Department has ever experienced. The continuing high prices for materials and labor made the cost of all projects excessive.

Bids received in 1919 were greater than the appropriation available for the construction of a home for 90 nurses and a dining room at the West Group, Boston State Hospital. The Department was compelled this year to make two additional requests for each building over the amount originally appropriated. The contracts for the erection of a dining room, East Group, and a male infirmary at the Boston State Hospital, were abandoned by the general contractor. These projects were readvertised, and the Department requested additional amounts for both buildings.

Additional appropriations were also requested for the completion of the building for disturbed men and the assembly hall and chapel at the Gardner State Colony; for repairing and enlarging sewage at the Medfield State Hospital; for standpipe and changes in water supply at the Westborough State Hospital; and the cold-storage building and industrial building at Wrentham State School. When bids were opened on August 31 for the industrial building at the Wrentham State School, even though an additional amount had been obtained, they were all rejected owing to insufficient appropriation. Two additional appropriations were made for the industrial building and dormitory for 105 inmates at the School for the Feeble-minded now being constructed at Belchertown, before the amount available was sufficient to award contracts.

For detail of new appropriations and additions to those already existing, see the following tables: —

STATEMENT OF APPROPRIATIONS FOR SPECIAL PURPOSES FOR THE VARIOUS INSTITUTIONS.

Boston State Hospital.

Construction of piggery (chapter 132, Resolves of 1916):—

Appropriation,	\$1,800 00
Expenditures previously authorized,	\$1,745 05
Expenditures authorized in 1920,	50 96
	<hr/>
	1,796 01

Balance reverted to State treasury, \$3 99

Interior fire escapes (chapter 122, Resolves of 1917):—

Appropriation,	\$2,832 00
Expenditures previously authorized,	\$877 00
Expenditures authorized in 1920,	1,954 25
	<hr/>
	2,831 25

Balance reverted to State treasury, \$0 75

Women's custodial building (chapter 132, Resolves of 1916):—

Appropriation,	\$140,000 00
Expenditures previously authorized,	\$139,912 94
Expenditures authorized in 1920,	85 14
	<hr/>
	139,998 08

Balance reverted to State treasury, \$1 92

Fire protection (chapter 132, Resolves of 1916):—

Appropriation,	\$2,500 00
Expenditures previously authorized,	\$2,483 21
Expenditures authorized for 1920,	12 50
	<hr/>
	2,495 71

Balance reverted to State treasury, \$4 29

Fire escapes (chapter 132, Resolves of 1916):—

Appropriation,	\$1,683 00
Expenditures previously authorized,	\$866 23
Expenditures authorized for 1920,	809 48
	<hr/>
	1,675 71

Balance reverted to State treasury, \$7 29

Boston State Hospital — Continued.

Window bars (chapter 50, Resolves of 1918): —

Appropriation,	\$1,500 00
Expenditures previously authorized,	\$1,365 00
Expenditures authorized in 1920,	135 00
	<hr/>
	1,500 00
	<hr/>

Male infirmary (chapter 50, Resolves of 1918; chapter 629, Acts of 1920): —

Appropriation (1918),	\$385,000 00
Appropriation (1920),	16,000 00
	<hr/>
	\$401,000 00
Expenditures previously authorized,	\$254,572 18
Expenditures authorized in 1920,	143,749 54
	<hr/>
	398,321 72
	<hr/>
Balance available,	\$2,678 28

Home for nurses (chapter 211, Special Acts of 1919; chapters 225 and 629, Acts of 1920): —

Appropriation (1919),	\$80,000 00
Appropriation (1920),	57,500 00
	<hr/>
	\$137,500 00
Expenditures previously authorized,	\$1,087 90
Expenditures authorized in 1920,	47,013 70
	<hr/>
	48,101 60
	<hr/>
Balance available,	\$89,398 40

Dining room, East Group (chapter 211, Special Acts of 1919; chapters 225 and 629, Acts of 1920): —

Appropriation (1919),	\$110,000 00
Appropriation (1920),	42,000 00
	<hr/>
	\$152,000 00
Expenditures previously authorized,	\$10,672 62
Expenditures authorized in 1920,	87,567 43
	<hr/>
	98,240 05
	<hr/>
Balance available,	\$53,759 95

Boston State Hospital — Concluded.

Dining room, West Group (chapter 211, Special Acts of 1919; chapters 225 and 629, Acts of 1920): —

Appropriation (1919),	\$100,000 00
Appropriation (1920),	110,000 00

\$210,000 00

Expenditures previously authorized,	\$3,196 14
---	------------

Expenditures authorized in 1920,	30,688 32
--	-----------

33,884 46

Balance available,	\$176,115 54
------------------------------	--------------

Danvers State Hospital.

Coal trestle (chapter 50, Resolves of 1918): —

Appropriation,	\$10,000 00
--------------------------	-------------

Expenditures previously authorized,	\$6,051 74
---	------------

Expenditures authorized in 1920,	3,939 88
--	----------

9,991 62

Balance reverted to State treasury,	\$8 38
---	--------

Construction of two verandas (chapter 50, Resolves of 1918): —

Appropriation,	\$18,500 00
--------------------------	-------------

Expenditures previously authorized,	\$15,320 19
---	-------------

Expenditures authorized in 1920,	2,412 72
--	----------

17,732 91

Balance available,	\$767 09
------------------------------	----------

Alteration at Middleton Colony (chapter 50, Resolves of 1918): —

Appropriation,	\$8,000 00
--------------------------	------------

Expenditures previously authorized,	\$6,929 29
---	------------

Expenditures authorized in 1920,	746 78
--	--------

7,676 07

Balance available,	\$323 93
------------------------------	----------

Power plant (chapter 629, Acts of 1920): —

Appropriation,	\$250,000 00
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Expenditures authorized in 1920,	10,467 75
--	-----------

Balance available,	\$239,532 25
------------------------------	--------------

Foxborough State Hospital.

Sewage filter beds (chapter 124, Resolves of 1917):—

Appropriation,	\$17,500 00
Expenditures previously authorized,	\$9,274 99
Expenditures authorized in 1920,	1,996 38
	<hr/>
	11,271 31
	<hr/>
Balance available,	\$6,228 63

Acute male receiving ward (chapter 50, Resolves of 1918; chapter 211, Special Acts of 1919):—

Appropriation (1918),	\$105,000 00
Appropriation (1919),	27,541 72
	<hr/>
	\$132,541 72
Expenditures previously authorized,	\$46,159 94
Expenditures authorized in 1920,	55,706 78
	<hr/>
	101,866 72
	<hr/>
Balance available,	\$30,675 00

Central service building (chapter 124, Resolves of 1917):—

Appropriation,	\$164,000 00
Expenditures previously authorized,	\$158,492 79
Expenditures authorized in 1920,	5,458 36
	<hr/>
	163,951 15
	<hr/>
Balance reverted to State treasury,	\$48 85

Purchase of farm land (chapter 50, Resolves of 1918):—

Appropriation,	\$10,500 00
Expenditures previously authorized,	\$10,249 63
Expenditures authorized in 1920,	250 00
	<hr/>
	10,499 63
	<hr/>
Balance reverted to State treasury,	\$0 37

Purchase of land and buildings (chapter 152, Special Acts of 1919):—

Appropriation,	\$34,000 00
Expenditures previously authorized,	\$30,013 08
Expenditures authorized in 1920,	3,271 72
	<hr/>
	33,284 80
	<hr/>
Balance available,	\$715 20

Foxborough State Hospital — Concluded.

Steam mains and electric cables (chapter 225, Acts of 1920):—

Appropriation,	\$30,000 00
Expenditures authorized in 1920,	12,164 04
	<hr/>
Balance available,	\$17,835 96

Gardner State Colony.

Changes in heating plant (chapter 50, Resolves of 1918):—

Appropriation,	\$5,500 00
Expenditures previously authorized,	\$5,372 12
Expenditures authorized in 1920,	—
	<hr/>
	5,372 12
	<hr/>
Balance available,	\$127 88

Assembly hall and chapel (chapter 211, Special Acts of 1919; chapter 629, Acts of 1920):—

Appropriation (1919),	\$35,574 00
Appropriation (1920),	9,000 00
	<hr/>
	\$44,574 00
Expenditures previously authorized,	\$1,108 62
Expenditures authorized in 1920,	23,699 21
	<hr/>
	24,807 83
	<hr/>
Balance available,	\$19,766 17

Building for disturbed men (chapter 211, Special Acts of 1919; chapter 629, Acts of 1920):—

Appropriation (1919),	\$10,000 00
Appropriation (1920),	1,500 00
	<hr/>
	\$11,500 00
Expenditures previously authorized,	\$6,516 44
Expenditures authorized in 1920,	3,550 28
	<hr/>
	10,066 72
	<hr/>
Balance available,	\$1,433 28

Underpass (chapter 211, Special Acts of 1919):—

Appropriation,	\$12,000 00
Expenditures previously authorized,	—
Expenditures authorized in 1920,	—
	<hr/>
	—
	<hr/>
Balance available,	\$12,000 00

Gardner State Colony — Concluded.

Extension of water supply (chapter 225, Acts of 1920):—

Appropriation,	\$10,000 00
Expenditures authorized in 1920,	5,965 80
	<hr/>
Balance available,	\$4,034 20

Grafton State Hospital.

Additional water supply (chapter 313, General Acts of 1917):—

Appropriation,	\$105,000 00
Expenditures previously authorized,	\$7,070 31
Expenditures authorized in 1920,	444 70
	<hr/>
	7,515 01
	<hr/>
Balance available,	\$97,484 99

Coal trestle and track scale (chapter 50, Resolves of 1918):—

Appropriation,	\$10,000 00
Expenditures previously authorized,	\$6,195 80
Expenditures authorized in 1920,	796 40
	<hr/>
	6,992 20
	<hr/>
Balance available,	\$3,007 80

Hydrotherapeutic equipment (chapter 50, Resolves of 1918):—

Appropriation,	\$6,000 00
Expenditures previously authorized,	—
Expenditures authorized in 1920,	—
	<hr/>
	—
	<hr/>
Balance available,	\$6,000 00

Additional fire protection (chapter 153, Special Acts of 1919):—

Appropriation,	\$6,000 00
Expenditures previously authorized,	\$630 00
Expenditures authorized in 1920,	3,689 58
	<hr/>
	4,319 58
	<hr/>
Balance available,	\$1,680 42

Vegetable cellar (chapter 211, Special Acts of 1919):—

Appropriation,	\$3,411 50
Expenditures previously authorized,	—
Expenditures authorized in 1920,	\$3,033 42
	<hr/>
	3,033 42
	<hr/>
Balance available,	\$378 08

Medfield State Hospital.

Purchase of land (chapter 51, Resolves of 1916):—

Appropriation,	\$8,000 00
Expenditures previously authorized,	\$7,781 83
Expenditures authorized in 1920,	13 47
	<hr/>
	7,795 30
	<hr/>
Balance available,	\$204 70

Repairing and enlarging sewage filter beds (chapter 96, Resolves of 1917; chapter 629, Acts of 1920):—

Appropriation (1917),	\$24,250 00
Appropriation (1920),	18,000 00
	<hr/>
	\$42,250 00
Expenditures previously authorized,	\$15,614 12
Expenditures authorized in 1920,	7,320 91
	<hr/>
	22,935 03
	<hr/>
Balance available,	\$19,314 97

High pressure steam main (chapter 50, Resolves of 1918):—

Appropriation,	\$12,000 00
Expenditures previously authorized,	\$11,762 65
Expenditures authorized in 1920,	—
	<hr/>
	11,762 65
	<hr/>
Balance reverted to State treasury,	\$237 35

Northampton State Hospital.

Two nurses' homes (chapter 50, Resolves of 1918):—

Appropriation,	\$108,000 00
Expenditures previously authorized,	\$98,986 40
Expenditures authorized in 1920,	837 90
	<hr/>
	99,824 30
	<hr/>
Balance available,	\$8,175 70

Purchase of land and building (chapter 50, Resolves of 1918):—

Appropriation,	\$5,000 00
Expenditures previously authorized,	\$3,031 15
Expenditures authorized in 1920,	1,321 97
	<hr/>
	4,353 12
	<hr/>
Balance available,	\$646 88

Northampton State Hospital — Concluded.

Dining room for employees (chapter 124, Resolves of 1916):—

Appropriation,	\$2,300 00
Expenditures previously authorized,	\$2,068 33
Expenditures authorized in 1920,	219 69
	<hr/>
	2,288 02

Balance reverted to State treasury,	\$11 92
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Purchase of land (chapter 629, Acts of 1920):—

Appropriation,	\$7,500 00
Expenditures authorized in 1920,	—
	<hr/>

Balance available,	\$7,500 00
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Taunton State Hospital.

Spur track and trestle (chapter 50, Resolves of 1918):—

Appropriation,	\$21,735 00
Expenditures previously authorized,	\$8,668 58
Expenditures authorized in 1920,	11,038 42
	<hr/>
	19,707 00

Balance available,	\$2,028 00
------------------------------	------------

Horse barn at Raynham Colony (chapter 50, Resolves of 1918):—

Appropriation,	\$4,250 00
Expenditures previously authorized,	\$3,508 85
Expenditures authorized in 1920,	739 91
	<hr/>
	4,248 76

Balance available,	\$1 24
------------------------------	--------

Westborough State Hospital.

Renewing female wards (chapter 94, Resolves of 1917):—

Appropriation,	\$20,977 44
Expenditures previously authorized,	\$20,809 51
Expenditures authorized in 1920,	—
	<hr/>
	20,809 51

Balance available,	\$167 93
------------------------------	----------

Renovation of Wards 2 and 5 (chapter 50, Resolves of 1918):—

Appropriation,	\$25,000 00
Expenditures previously authorized,	\$24,532 66
Expenditures authorized in 1920,	—
	<hr/>
	24,532 66

Balance available,	\$467 34
------------------------------	----------

Westborough State Hospital — Concluded.

Extension of water main (chapter 94, Resolves of 1917):—

Appropriation,	\$3,000 00
Expenditures previously authorized,	\$2,717 97
Expenditures authorized in 1920,	280 01
	<hr/>
	2,997 98

Balance reverted to State treasury,	\$2 02
---	--------

Standpipe and change in water system (chapter 50, Resolves of 1918; chapter 225, Acts of 1920):—

Appropriation (1918),	\$36,500 00
Appropriation (1920),	3,500 00
	<hr/>
	\$40,000 00

Expenditures previously authorized,	\$31,064 24
Expenditures authorized in 1920,	5,396 52
	<hr/>
	36,460 76

Balance available,	\$3,539 24
------------------------------	------------

Worcester State Hospital.

Water supply (chapter 95, Resolves of 1917):—

Appropriation,	\$11,385 00
Expenditures previously authorized,	\$4,281 89
Expenditures authorized in 1920,	345 00
	<hr/>
	4,626 89

Balance available,	\$6,758 11
------------------------------	------------

Renovating the plumbing (chapter 153, Special Acts of 1919):—

Appropriation,	\$5,500 00
Expenditures previously authorized,	—
Expenditures authorized in 1920,	\$5,136 93
	<hr/>
	5,136 93

Balance available,	\$363 07
------------------------------	----------

Alterations, Hillside Farm (chapter 153, Special Acts of 1919):—

Appropriation,	\$5,500 00
Expenditures previously authorized,	\$3,584 52
Expenditures authorized in 1920,	1,809 88
	<hr/>
	5,394 40

Balance available,	\$105 60
------------------------------	----------

Worcester State Hospital — Concluded.

Remodeling Worcester Department heating system (chapter 123, Resolves of 1917) (transferred from the Grafton State Hospital Dec. 1, 1919): —

Appropriation,	\$89,303 00
Expenditures previously authorized,	\$85,544 28
Expenditures authorized in 1920,	145 81
	<hr/>
	85,690 09
Balance available,	<hr/>
	\$3,612 91

Water supply for fire protection (chapter 225, Acts of 1920): —

Appropriation,	\$17,000 00
Expenditures authorized in 1920,	6,187 19
	<hr/>
Balance,	\$10,812 81

Alteration to the laundry (chapter 225, Acts of 1920): —

Appropriation,	\$21,000 00
Expenditures authorized in 1920,	17,778 07
	<hr/>
Balance available,	\$3,221 93

Repairing damages by fire (chapter 153, Special Acts of 1919): —

Appropriation,	\$15,000 00
Expenditures previously authorized,	\$13,410 63
Expenditures authorized in 1920,	370 52
	<hr/>
	13,781 15
Balance reverted to State treasury,	<hr/>
	\$1,218 85

Massachusetts School for the Feeble-minded, Waverley.

Recreation building (chapter 127, Resolves of 1916): —

Appropriation,	\$23,700 00
Expenditures previously authorized,	\$23,668 97
Expenditures authorized in 1920,	26 60
	<hr/>
	23,695 57
Balance reverted to State treasury,	<hr/>
	\$4 43

Concrete hay barn, Templeton Colony (chapter 50, Resolves of 1918): —

Appropriation,	\$3,500 00
Expenditures previously authorized,	\$2,937 60
Expenditures authorized in 1920,	96 40
	<hr/>
	3,034 00
Balance available,	<hr/>
	\$466 00

Massachusetts School for the Feeble-minded, Waverley — Concluded.

Canning plant at Templeton Colony (chapter 50, Resolves of 1918):—

Appropriation,	\$1,000 00
Expenditures previously authorized,	\$802 75
Expenditures authorized in 1920,	192 40
	<hr/>
	995 15
	<hr/>
Balance reverted to State treasury,	\$4 85

Side track (chapter 50, Resolves of 1918):—

Appropriation,	\$25,000 00
Expenditures previously authorized,	\$456 68
Expenditures authorized in 1920,	818 37
	<hr/>
	1,275 05
	<hr/>
Balance available,	\$23,724 95

Assembly hall at Templeton Colony (chapter 225, Acts of 1920):—

Appropriation,	\$5,000 00
Expenditures authorized in 1920,	—
	<hr/>
Balance available,	\$5,000 00

Wrentham State School.

Addition to Dormitory G (chapter 98, Resolves of 1917):—

Appropriation,	\$63,770 70
Expenditures previously authorized,	\$63,440 05
Expenditures authorized in 1920,	321 20
	<hr/>
	63,761 25
	<hr/>
Balance reverted to State treasury,	\$9 45

Brick chimney (chapter 50, Resolves of 1918):—

Appropriation,	\$5,500 00
Expenditures previously authorized,	\$4,709 72
Expenditures authorized in 1920,	790 00
	<hr/>
	5,499 72
	<hr/>
Balance reverted to State treasury,	\$0 28

Purchase of land (chapter 50, Resolves of 1918):—

Appropriation,	\$2,200 00
Expenditures previously authorized,	\$1,245 78
Expenditures authorized in 1920,	724 22
	<hr/>
	1,970 00
	<hr/>
Balance available,	\$230 00

Wrentham State School — Concluded.

Purchase of land and buildings (chapter 242, Special Acts of 1919):—

Appropriations,	\$8,000 00
Expenditures previously authorized,	\$6,550 00
Expenditures authorized in 1920,	535 27
	<hr/>
	7,085 27

Balance available,	\$914 73
------------------------------	----------

Industrial building (chapters 225 and 629, Acts of 1920):—

Appropriation,	\$55,000 00
Expenditures authorized in 1920,	114 00

Balance available,	\$54,886 00
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Cold-storage plant (chapters 225 and 629, Acts of 1920):—

Appropriation,	\$55,000 00
Expenditures authorized in 1920,	752 65

Balance available,	\$54,247 35
------------------------------	-------------

School for the Feeble-minded, Belchertown.

Plans, buildings, etc. (chapter 160, Resolves of 1916):—

Appropriation,	\$150,000 00
Expenditures previously authorized,	\$122,834 25
Expenditures authorized in 1920,	12,708 69
	<hr/>
	135,542 94

Balance available,	\$14,457 06
------------------------------	-------------

Water supply (chapter 224, Acts of 1918):—

Appropriation,	\$50,000 00
Expenditures previously authorized,	—
Expenditures authorized in 1920,	—

Balance available,	\$50,000 00
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School for the Feeble-minded, Belchertown — Continued.

Custodial buildings (chapter 211, Special Acts of 1919; chapters 225 and 629, Acts of 1920): —

Appropriation,	\$84,000 00
Authorized transfer,	11,000 00
	<hr/>
	\$95,000 00
Appropriation (1920),	97,700 00
	<hr/>
	\$192,700 00
Expenditures previously authorized,	\$66 08
Expenditures authorized in 1920,	22,675 31
	<hr/>
	22,741 39
	<hr/>
Balance available,	\$169,958 61

Dormitory for 105 inmates (chapter 211, Special Acts of 1919; chapters 225 and 629, Acts of 1920): —

Appropriation (1919),	\$23,000 00
Authorized transfer,	50,000 00
	<hr/>
	\$73,000 00
Appropriation (1920),	69,492 00
	<hr/>
	\$142,492 00
Expenditures previously authorized,	\$32 75
Expenditures authorized in 1920,	16,974 70
	<hr/>
	17,007 45
	<hr/>
Balance available,	\$125,484 55

Storehouse and bakery (chapter 211, Special Acts of 1919): —

Appropriation,	\$60,000 00
Authorized transfer,	20,000 00
	<hr/>
	\$80,000 00
Expenditures previously authorized,	\$1,738 41
Expenditures authorized in 1920,	30,231 74
	<hr/>
	31,970 15
	<hr/>
Balance available,	\$48,029 85

School for the Feeble-minded, Belchertown — Concluded.

Laundry building (chapter 211, Special Acts of 1919): —

Appropriation,	\$13,000 00
Authorized transfer,	20,000 00

 \$33,000 00

Expenditures previously authorized,	\$721 50
Expenditures authorized in 1920,	12,169 08
	<hr/>
	12,890 58

Balance available,	\$20,109 42
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Power house (chapter 211, Special Acts of 1919): —

Appropriation,	\$108,000 00
Expenditures previously authorized,	\$1,338 70
Expenditures authorized in 1920,	23,440 49

 24,779 19

Balance available,	\$83,220 81
------------------------------	-------------

Tunnels and piping (chapter 211, Special Acts of 1919): —

Appropriation,	\$53,000 00
Expenditures previously authorized,	\$12 00
Expenditures authorized in 1920,	4,847 74

 4,859 74

Balance available,	\$48,140 26
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Road and grading (chapter 211, Special Acts of 1919): —

Appropriation,	\$9,000 00
Expenditures previously authorized,	\$174 68
Expenditures authorized in 1920,	7,426 88

 7,601 56

Balance available,	\$1,398 44
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Norfolk State Hospital.

Land (chapter 635, Acts of 1910): —

Appropriation,	\$50,000 00
Expenditures previously authorized,	\$49,766 47
Expenditures authorized in 1920,	—

 49,766 47

Balance available,	\$233 53
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Norfolk State Hospital — Concluded.

Trestle and spur track (chapter 142, Resolves of 1914):—

Appropriation,	\$4,000 00
Expenditures previously authorized,	\$3,306 55
Expenditures authorized in 1920,	196 25
	<hr/>
	2,502 80
Balance available,	<hr/>
	\$497 20

Additional land (chapter 145, Resolves of 1915):—

Appropriation,	\$5,000 00
Expenditures previously authorized,	\$4,928 69
Expenditures authorized in 1920,	—
	<hr/>
	4,928 69
Balance available,	<hr/>
	\$71 31

Barn and storage house (chapter 97, Resolves of 1916):—

Appropriation,	\$4,500 00
Expenditures previously authorized,	\$2,736 85
Expenditures authorized in 1920,	—
	<hr/>
	2,736 85
Balance available,	<hr/>
	\$1,263 15

Purchase of certain land (chapter 242, Acts of 1919):—

Appropriation,	\$500 00
Expenditures previously authorized,	—
Expenditures authorized in 1920,	—
	<hr/>
	—
Balance available,	<hr/>
	\$500 00

GENERAL MATTERS.

NEW LEGISLATION.

The following acts were passed by the Legislature of 1920: —

CHAPTER 193.

AN ACT TO PROVIDE FOR THE TRANSFER OF CERTAIN PERSONS TO THE MENTAL WARDS OF THE STATE INFIRMARY.

Be it enacted, etc., as follows:

Until such time as the Norfolk state hospital is vacated by the United States public health service and returned to the control of the commonwealth, or other provision is made for the care of persons addicted to the intemperate use of narcotics or stimulants, the commissioner of mental diseases may, under the provisions of section sixty-nine of chapter five hundred and four of the acts of nineteen hundred and nine, as amended by section one of chapter three hundred and thirty-four of the acts of nineteen hundred and eleven, and by chapter one hundred and thirty-one of the General Acts of nineteen hundred and seventeen, transfer to the mental wards of the state infirmary any inmate of the Norfolk state hospital who has been duly committed thereto under the provisions of section fifty of said chapter five hundred and four, as amended by chapter five hundred and fifty-eight of the acts of nineteen hundred and fourteen, by chapter seventy-three of the General Acts of nineteen hundred and fifteen, by chapter sixty-nine of the General Acts of nineteen hundred and seventeen, and by section one of chapter one hundred and thirty-nine of the General Acts of nineteen hundred and eighteen. [*Approved March 24, 1920.*]

THE COMMONWEALTH OF MASSACHUSETTS,
EXECUTIVE DEPARTMENT, BOSTON, March 24, 1920.

I, Calvin Coolidge, by virtue of and in accordance with the provisions of the Forty-eighth Amendment to the Constitution, "The Referendum II Emergency Measures", do declare that in my opinion the immediate preservation of the public peace, health, safety and convenience requires that the law passed on the twenty-fourth day of March, in the year nineteen hundred and twenty, entitled "An Act to provide for the Transfer of Certain Persons to the Mental Wards of the State Infirmary", should take effect forthwith, that it is an emergency law, and that the facts constituting the emergency are as follows: — that serious inconvenience and injury will be caused the public by the deferred operation of this Act.

CALVIN COOLIDGE.

THE COMMONWEALTH OF MASSACHUSETTS,
OFFICE OF THE SECRETARY, BOSTON, March 24, 1920.

I hereby certify that the above statement was filed in this office by His Excellency the Governor of the Commonwealth of Massachusetts at four fifty-eight o'clock P.M. on the above date, and in accordance with Article Forty-eight of the Amendments to the Constitution said chapter takes effect forthwith, being chapter one hundred and ninety-three, acts of nineteen hundred and twenty.

ALBERT P. LANGTRY,
Secretary of the Commonwealth.

CHAPTER 244.

AN ACT TO PROVIDE FOR THE LIMITED REGISTRATION OF INTERNES AND
HOSPITAL MEDICAL OFFICERS.

Be it enacted, etc., as follows:

SECTION 1. An applicant for limited registration under this act who shall furnish the board of registration in medicine with satisfactory proof that he is twenty-one years of age or over and of good moral character, that he has creditably completed not less than three and one half years of study in a legally chartered medical school in good standing having the power to grant degrees in medicine, and that he has been appointed an interne or medical officer in a hospital or other institution maintained by the commonwealth, or by a county or municipality thereof, or in a hospital incorporated under the laws of this commonwealth may, upon the payment of a fee of five dollars, be registered by said board as a hospital medical officer for such time as it may prescribe; but such limited registration shall entitle the said applicant to practice medicine only in the hospital or other institution designated on his certificate of limited registration, and under the regulations established by such hospital or other institution. Limited registration under the provisions of this act may be revoked at any time by the board.

SECTION 2. Persons registered under the provisions of this act shall have the rights and duties and be subject to the penalties prescribed for physicians by chapter twenty-nine of the Revised Laws and acts in amendment thereof and in addition thereto so far as the same relate to the furnishing of certificates and returns of births and deaths. [*Approved April 2, 1920.*]

CHAPTER 247.

AN ACT TO AUTHORIZE THE DEPARTMENT OF MENTAL DISEASES TO AC-
QUIRE AN ADDITIONAL WATER SUPPLY FOR THE GRAFTON STATE HOS-
PITAL.

Be it enacted, etc., as follows:

SECTION 1. In addition to the authority conferred upon the department of mental diseases by chapter three hundred and thirteen of the General Acts of nineteen hundred and seventeen for the purpose of supply-

ing the Grafton state hospital with pure water for domestic and other purposes, said department is further authorized to contract with the city of Worcester for a water supply for said institution from the works of that city, and the city is hereby authorized to sell water for that purpose under such terms and conditions as may be agreed upon by the said city and department.

SECTION 2. Said chapter three hundred and thirteen, as affected by chapter three hundred and fifty of the General Acts of nineteen hundred and nineteen, is hereby amended by striking out section two and substituting the following:—*Section 2.* Said department may construct on lands acquired under the provisions of this act proper dams, reservoirs, standpipes, tanks, buildings, fixtures and other structures, and may make excavations, procure and operate machinery and provide such other means and appliances, and do such other things as may be necessary for the establishment and maintenance of complete and effective water works; and for that purpose may construct wells and reservoirs and establish pumping works, and may construct, lay and maintain aqueducts, conduits, pipes and other works under or over any lands, water courses, railroads, railways, and public or other ways, and along such ways in the towns of Northborough, Millbury, Westborough and Grafton and in the city of Worcester in such manner as not unnecessarily to obstruct the same; and for the purpose of constructing, laying, maintaining, operating and repairing such conduits, pipes and other works, and for all other proper purposes of this act, said department may dig up or raise and embank lands, highways or other ways, in such manner as to cause the least hindrance to public travel on such ways, and all things done upon any such way shall be subject to the direction of the selectmen of the town in which the way is situated, or in the case of work done in the city of Worcester to the direction of the board or commission having charge of highways in said city. Said department shall not enter upon, construct or lay any conduits, pipes or other works within the location of any railroad corporation, except at such time and in such manner as it may agree upon with such corporation, or in case of failure so to agree, as may be approved by the department of public utilities.

SECTION 3. This act shall take effect upon its passage. [*Approved April 6, 1920.*]

CHAPTER 253.

AN ACT TO REGULATE TRAVEL OUTSIDE THE COMMONWEALTH BY OFFICERS AND EMPLOYEES THEREOF.

Be it enacted, etc., as follows:

Section eleven of chapter four of the Revised Laws is hereby amended by adding at the end thereof the following:—No officer or employee of the commonwealth shall travel outside the commonwealth at public expense unless he has previously been authorized by the governor to leave

the commonwealth, and in applying for such authorization the officer or employee shall specify the places to be visited and the probable duration of his absence, — so as to read as follows: — *Section 11.* The governor may appoint state officers as delegates to represent the commonwealth at such conventions as may be held in any part of the United States for the purpose of considering questions of charity, reform, statistics, insurance and other matters affecting the welfare of the people. The necessary expenses of such delegates may be paid from such appropriations as the general court shall make from year to year for the travelling and contingent expenses of such officers. No officer or employee of the commonwealth shall travel outside the commonwealth at public expense unless he has previously been authorized by the governor to leave the commonwealth, and in applying for such authorization the officer or employee shall specify the places to be visited and the probable duration of his absence. [*Approved April 6, 1920.*]

CHAPTER 394.

AN ACT TO PROVIDE FOR DETERMINING THE COST OF THE WATER SUPPLIED BY THE TOWN OF DANVERS TO THE DANVERS STATE HOSPITAL.

Whereas, The terms of this act require that it take immediate effect, therefore, it is hereby declared to be an emergency law, necessary for the immediate preservation of the public convenience.

Be it enacted, etc., as follows:

SECTION 1. The water supplied by the town of Danvers to the Danvers state hospital shall be paid for at cost, and the cost shall be determined as follows: — on or before July first of the current year, the water commissioners of the town shall determine the cost per thousand gallons for the town fiscal years nineteen hundred and seventeen, nineteen hundred and eighteen, nineteen hundred and nineteen, and the average of said years shall be deemed to be the cost for the fiscal years nineteen hundred and twenty, nineteen hundred and twenty-one and nineteen hundred and twenty-two. The cost shall be determined in accordance with the principles laid down by the supreme judicial court in the case of the *Selectmen of Danvers vs. the Commonwealth*, 184 Mass. Reports 502, and shall be paid by the commonwealth on or before December fifteenth in each of the years nineteen hundred and twenty, nineteen hundred and twenty-one and nineteen hundred and twenty-two, unless the determination is rejected by the trustees of the hospital as hereinafter provided. On or before February first of the year nineteen hundred and twenty-three, and every third year thereafter, the water commissioners of the town shall estimate in the manner aforesaid the average cost per thousand gallons for the preceding three fiscal years, and the average cost so determined shall be the cost for the ensuing three years; and so on for each period of three

years. The amount so determined shall be paid by the commonwealth on or before December fifteenth of the year nineteen hundred and twenty-three and of each succeeding year, unless the trustees reject the determination as hereinafter provided.

SECTION 2. If, within thirty days after receiving notice in any year of the cost determined as aforesaid, the trustees shall file with the water commissioners a notice of their refusal to accept the determination, the cost shall be determined, on the principles aforesaid, by a representative of the department of public health to be designated by the commissioner of public health and a second person to be appointed by the water commissioners. If said two persons cannot agree then, upon petition, either by the water commissioners or by the said trustees, to the supreme judicial court, the court shall appoint a third person to act with the said two persons, and the determination of a majority of the said three persons shall be final and conclusive. The person selected by the water commissioners shall be paid by the town. The person designated by the commissioner of public health shall receive no extra compensation for his services, and the compensation of the person appointed by the supreme judicial court shall be fixed by the court, and shall be paid equally by the town and by the commonwealth.

SECTION 3. Chapter four hundred and sixty-nine of the acts of nineteen hundred and five is hereby repealed. [*Approved May 4, 1920.*]

CHAPTER 537.

AN ACT TO MAKE THE PSYCHOPATHIC DEPARTMENT OF THE BOSTON STATE HOSPITAL A SEPARATE STATE HOSPITAL FOR THE INSANE.

Be it enacted, etc., as follows:

SECTION 1. The psychopathic department of the Boston state hospital is hereby made a separate state hospital for the care of the insane and shall be subject to all provisions of law applicable to such state hospitals. Its name shall be the Boston Psychopathic Hospital.

SECTION 2. On or before the thirtieth day of November in the current year the governor, with the advice and consent of the council, shall appoint a board of trustees of the Boston psychopathic hospital, consisting of seven members, of whom five shall be men and two shall be women. The initial members of said board shall be appointed for terms of one, two, three, four, five, six and seven years respectively from the first Wednesday in February, nineteen hundred and twenty, or until their successors are appointed and qualified. Thereafter as their several terms expire, the governor shall appoint a trustee for the term of seven years, and shall fill any vacancy for the unexpired term. The said trustees shall have all the powers and duties in respect to the Boston psychopathic hospital which the present trustees of the Boston state hospital now have in respect thereto, and shall be subject to all provisions of law relating to trustees of state hospitals for the care of the insane. [*Approved May 27, 1920.*]

RESOLVES, CHAPTER 48.

RESOLVE AUTHORIZING THE LEASING OF THE WORCESTER STATE HOSPITAL
TO THE UNITED STATES OF AMERICA.

Resolved, That the governor and council be authorized to lease to the United States of America, for the use of any department thereof, the land and buildings, or any part thereof, comprising the Worcester state hospital, for a term not exceeding five years and for such rental as the governor and council may fix; but no person shall obtain a settlement in this commonwealth by reason of his residence at the said institution during the period of said lease. [Approved May 13, 1920.]

SPECIAL APPROPRIATIONS.

The special appropriations for the year 1920 and for ten, twelve and twenty-two year periods are shown in the following table:—

Detailed Statement.

	1920.	Twelve Years, ending 1920.	Ten Years, ending 1908.	Twenty- two Years, ending 1920.
Worcester Hospital:—				
Additional water supply for fire protection,	\$17,000 00			
For additions and alterations in laundry (chapter 225, Acts of 1920),	21,000 00			
	\$38,000 00	\$254,660 00	\$299,098 44	\$553,758 44
Taunton Hospital,	—	172,285 00	325,205 00	497,490 00
Northampton Hospital:—				
Purchase of land (chapter 629, Acts of 1920),	\$7,500 00	203,685 00	217,300 00	420,985 00
Danvers Hospital:—				
Constructing and equipping power plant (chapter 629, Acts of 1920),	\$250,000 00	402,150 00	364,100 00	766,250 00
Westborough Hospital:—				
For completing standpipe and for changes in the water system (chapter 225, Acts of 1920),	\$3,500 00	326,750 00	454,625 00	781,375 00
Boston Hospital:—				
For completing home for 90 nurses,	\$24,000 00			
For completing dining room, West Group (chapter 225, Acts of 1920),	60,000 00			
Further appropriation for home for 90 nurses,	33,500 00			
Further appropriation for congregate dining room, West Group,	50,000 00			
Further appropriation for congregate dining room, East Group,	42,000 00			
To complete male infirmary (chapter 629, Acts of 1920),	16,000 00			
	\$225,500 00	2,596,313 57	—	2,596,313 57
For land taken by eminent domain for Boston,	—	400,000 00	—	400,000 00

Detailed Statement—Concluded.

	1920.	Twelve Years, ending 1920.	Ten Years, ending 1908.	Twenty- two Years, ending 1920.
Grafton Hospital,	-	\$1,191,689 50	\$517,900 00	\$1,709,589 50
Medfield Hospital:— Repairing and enlarging sewage filter beds (chapter 629, Acts of 1920),	\$18,000 00	151,977 00	558,700 00	710,677 00
Gardner Colony:— Extension of water supply,	\$10,000 00			
To complete building for disturbed men, To complete building, furnishing and equipping assembly hall and chapel (chapter 629, Acts of 1920),	1,500 00 9,000 00			
	\$20,500 00	209,124 00	495,950 00	705,074 00
Monson Hospital,	-	309,745 00	431,800 00	741,545 00
Foxborough Hospital:— Installing steam main and electric cable (chapter 629, Acts of 1920),	\$30,000 00	557,591 72	173,150 00	730,741 72
Massachusetts School for the Feeble- minded:— Constructing assembly hall at Temple- ton Colony (chapter 225, Acts of 1920), .	\$5,000 00	126,700 00	537,100 00	663,800 00
Wrentham School:— Constructing and equipping industrial building,	\$43,000 00			
Constructing cold-storage plant (chapter 225, Acts of 1920),	45,000 00			
To complete industrial building,	12,000 00			
To complete cold-storage plant (chapter 629, Acts of 1920),	10,000 00			
	\$110,000 00	932,560 00	247,800 00	1,180,360 00
Proposed School for Feeble-minded at Belchertown:— Constructing and furnishing a custodial building for 140 inmates,	\$45,000 00			
Constructing and furnishing a dormitory for 105 inmates (chapter 629, Acts of 1920),	31,000 00			
To complete custodial building,	52,700 00			
To complete dormitory (chapter 629, Acts of 1920),	38,492 00			
	\$167,192 00	767,192 00	-	767,192 00
Hospital for Insane in the Metropolitan District,	-	115,000 00	-	115,000 00
State Infirmary (mental wards),	-	-	120,000 00	120,000 00
Bridgewater Hospital,	-	90,000 00	235,000 00	325,000 00
Purchase of Boston Insane Hospital (see Boston State Hospital),	-	1,000,000 00	-	1,000,000 00

Norfolk State Hospital placed under supervision of Department Dec. 1, 1919; formerly under State Board of Charity.

Summary of Special Appropriations.

	1920.	Twelve Years, ending 1920.	Ten Years, ending 1908.	Twenty- two Years, ending 1920.
Insane:—				
Constructing, furnishing and equipping buildings for patients and nurses, . . .	\$75,000 00	\$3,155,009 03	\$2,207,525 00	\$5,362,534 03
Number of patients provided for, . . .	—	3,298	2,992	6,280
Average per capita cost, . . .	—	\$742 08	\$596 27	\$673 79
Number of nurses provided for, . . .	—	777	651	1,428
Average per capita cost, . . .	—	\$910 69	\$650 49	\$792 07
Patients and nurses provided for, . . .	—	4,075	3,643	7,708
Average per capita cost, . . .	—	\$774 23	\$605 96	\$695 71
Land, buildings for officers and em- ployees and for administrative pur- poses, including furnishing and equip- ment, improvements and repairs, . . .	\$518,000 00	\$3,669,589 26	\$1,733,886 44	\$5,403,475 70
Totals,	\$593,000 00	\$6,824,598 29	\$3,941,411 44	\$10,766,009 73
Feeble-minded:—				
Constructing, furnishing and equipping buildings for patients and nurses, . . .	\$167,192 00	\$1,004,192 00	\$425,500 00	\$1,429,692 00
Number of patients provided for, . . .	245	1,713	840	2,558
Average per capita cost, . . .	—	\$536 30	\$435 12	\$502 02
Number of nurses provided for, . . .	—	131	82	213
Average per capita cost, . . .	—	\$652 67	\$731 70	\$683 09
Patients and nurses provided for, . . .	245	1,844	922	2,771
Average per capita cost, . . .	—	\$544 57	\$461 50	\$515 94
Land, buildings for officers and em- ployees, and for administrative pur- poses, including furnishing and equip- ment, improvements and repairs, . . .	\$115,000 00	\$822,260 00	\$359,400 00	\$1,181,660 00
Totals,	\$282,192 00	\$1,826,452 00	\$784,900 00	\$2,611,352 00
Epileptic (sane):—				
Constructing, furnishing and equipping buildings for patients and nurses, . . .	—	\$87,000 00	\$152,550 00	\$239,550 00
Number of patients provided for, . . .	—	150	192	342
Average per capita cost, . . .	—	\$560 00	\$732 03	\$656 57
Number of nurses provided for, . . .	—	4	27	31
Average per capita cost, . . .	—	\$750 00	\$444 44	\$483 87
Patients and nurses provided for, . . .	—	154	219	373
Average per capita cost, . . .	—	\$564 93	\$696 57	\$642 22
Land, buildings for officers and em- ployees and for administrative pur- poses, including furnishing and equip- ment, improvements and repairs, . . .	—	\$64,372 50	\$63,350 00	\$127,722 50
Totals,	—	\$151,372 50	\$215,900 00	\$367,272 50
Inebriate:—				
Land, buildings for officers and em- ployees and for administrative pur- poses, including furnishing and equip- ment, improvements and repairs, . . .	—	—	\$35,517 00	\$41,017 00
All classes:—				
Constructing, furnishing and equipping buildings for patients and nurses, . . .	\$242,192 00	\$4,246,201 63	\$2,785,575 00	\$7,031,776 03
Number of patients provided for, . . .	245	5,161	4,024	9,180
Average per capita cost, . . .	\$753 84	\$668 49	\$596 11	\$625 29
Number of nurses provided for, . . .	—	912	760	1,672
Average per capita cost, . . .	—	\$872 93	\$651 94	\$772 48
Patients and nurses provided for, . . .	245	6,073	4,784	10,852
Average per capita cost, . . .	\$753 84	\$699 19	\$583 27	\$647 97
Land, buildings for officers and em- ployees and for administrative pur- poses, including furnishing and equip- ment, improvements and repairs, . . .	\$633,000 00	\$4,561,721 76	\$2,192,153 44	\$6,753,875 20
Totals,	\$875,192 00	\$8,807,922 79	\$4,977,728 44	\$13,785,651 23
Average amount appropriated annually, . . .	—	\$733,993 56	\$497,772 84	\$626,620 51
Purchase of the Boston Insane Hospital, . . .	—	1,000,000 00	—	1,000,000 00
Totals,	\$875,192 00	\$9,807,922 79	\$4,977,728 44	\$14,785,651 23

FINANCIAL STATISTICS

TABLE 1. — *Balance Sheet, 1920.*

Inventory Nov. 30, 1919.	•	\$20,730,612 50	Inventory Nov. 30, 1920.	•	\$21,276,834 96
Unexpended balance of special appropriations.	•	1,300,952 62	Unexpended balance of special appropriations.	•	1,531,131 51
			Unexpended balance of maintenance appropriations		492,872 73
Accounts receivable,	•	66,164 09	reverting to State treasury,	•	68,392 26
Private funds,	•	73,978 06	Accounts receivable,	•	73,398 91
			Private funds,	•	
Total resources,	•	\$22,177,707 27	Total resources,	•	\$23,442,630 37
Net increase in value of property.	•	1,348,641 62	Net depreciation in value of property.	•	806,770 14
Maintenance appropriation granted,	•	7,083,427 72	Expenditures from maintenance appropriations,	•	6,590,554 99
Special appropriation granted,	•	875,192 00	Expenditures from special appropriations,	•	643,448 06
			Unexpended balances of special appropriations reverting to State		1,565 05
Resources from all sources except State Treasurer,	•	631,341 37	treasury.	•	631,341 37
			Money received and remitted to State treasury,	•	
Aggregate,	•	\$32,116,309 98	Aggregate,	•	\$32,116,309 98

TABLE 2. — *Financial Summary for the Year ending Nov. 30, 1920.*

	RESOURCES Nov. 30, 1920.					Total Resources.
	Inventory.	Unexpended Balance of Special Appropriation.	Unexpended Balance of Maintenance Appropriation reverting to State Treasury.	Accounts receivable.	Private Funds.	
The insane:—						
Worcester Hospital,	\$2,825,649 14	\$24,874 43	\$92,506 62	\$9,137 48	\$9,641 30	\$2,961,808 97
Taunton Hospital,	1,002,105 86	2,029 24	49,479 79	4,807 03	—	1,053,421 92
Northampton Hospital,	1,244,155 19	16,322 58	37,470 57	4,384 12	779 78	1,303,112 24
Danvers Hospital,	2,627,437 58	240,623 27	43,059 03	12,677 84	—	2,922,797 72
Westborough Hospital,	1,332,367 47	4,174 51	32,089 81	13,811 34	4,190 81	1,386,773 94
Boston Hospital (including Psychopathic Department),	3,713,119 24	321,952 17	9,213 74	12,337 87	—	4,056,623 02
Grafton Hospital,	1,512,028 02	108,551 29	44,535 90	1,965 64	—	1,667,082 75
Medfield Hospital,	1,865,903 31	19,519 67	39,856 85	2,475 16	—	1,925,754 99
Foxborough Hospital,	890,197 38	55,454 79	2,210 56	1,617 24	—	949,479 97
Gardner Colony,	768,785 21	37,361 53	25,635 03	497 56	—	832,279 33
Totals,	\$17,809,888 40	\$830,863 48	\$375,058 90	\$63,712 18	\$14,611 89	\$19,094,134 85
Miscellaneous:—						
Monson Hospital,	\$1,003,832 09	—	\$43,732 75	\$1,509 73	—	\$1,049,074 57
School for Feeble-minded at Waltham,	1,103,391 87	\$29,190 95	39,377 80	2,137 00	\$58,787 02	1,233,084 64
Wrentham School,	1,189,297 85	110,278 08	34,703 28	1,033 35	—	1,335,312 56
Totals,	\$3,296,721 81	\$139,469 03	\$117,513 83	\$4,680 08	\$58,787 02	\$3,617,471 77
Totals, hospital and miscellaneous,	\$21,106,610 21	\$970,332 51	\$492,872 73	\$68,392 26	\$73,398 91	\$22,711,666 62
Uncompleted projects:—						
Metropolitan Hospital,	\$9,811 00	—	—	—	—	\$9,811 00
School for Feeble-minded at Belchertown,	160,413 75	\$560,799 00	—	—	—	721,212 75
Totals,	\$170,224 75	\$560,799 00	—	—	—	\$731,023 75
Aggregates,	\$21,276,834 96	\$1,531,131 51	\$492,872 73	\$68,392 26	\$73,398 91	\$23,442,630 37
Norfolk Hospital,	—	—	\$11,099 80	—	—	—

TABLE 2. — *Financial Summary for the Year ending Nov. 30, 1920* — Continued.

INSTITUTIONS.	Net Decrease in Resources during Year 1920.	EXPENDITURES.		Unexpended Balance of Special Appropriation reverting to State Treasury.	Money remitted to State Treasury from Receipts.	Aggregates.
		Maintenance Appropriation.	Special Appropriation.			
The insane:						
Worcester Hospital,	—	\$677,295 88	\$31,773 40	\$1,218 85	\$95,120 67	\$3,767,217 77
Taunton Hospital,	—	471,537 43	11,778 33	—	51,884 74	1,593,622 42
Northampton Hospital,	—	350,514 01	2,379 56	11 98	83,492 21	1,739,510 00
Danvers Hospital,	—	588,640 97	17,567 13	8 38	91,755 19	3,620,769 39
Westborough Hospital,	\$132,822 32	556,826 37	5,676 53	2 02	107,665 18	2,189,766 36
Boston Hospital (including Psychopathic Department),	—	854,689 01	312,066 32	18 24	78,484 27	5,301,880 86
Granton Hospital,	643,289 15	538,044 46	7,964 10	—	22,548 11	2,908,928 57
Medfield Hospital,	—	593,486 49	7,334 38	237 35	25,326 99	2,552,140 20
Foxborough Hospital,	—	268,089 44	78,847 28	49 22	17,609 19	1,314,075 10
Gardner Colony,	—	315,203 67	33,215 29	—	12,449 82	1,193,148 11
Totals,	\$776,111 47	\$5,214,327 73	\$508,602 32	\$1,546 04	\$586,336 37	\$26,181,058 78
Miscellaneous: —						
Monson Hospital,	—	\$378,970 61	—	—	\$20,952 39	\$1,448,997 57
School for Feeble-minded at Waltham,	\$30,658 67	552,462 10	\$1,133 77	\$9 28	18,397 52	1,835,775 98
Wrentham School,	—	444,764 55	3,237 34	9 73	5,655 09	1,788,979 27
Totals,	\$30,658 67	\$1,376,227 26	\$4,371 11	\$19 01	\$45,005 00	\$5,073,752 82
Totals, hospitals and miscellaneous,	\$806,770 14	\$6,590,554 99	\$512,973 43	\$1,565 05	\$631,341 37	\$31,254,811 60
Uncompleted projects: —						
Metropolitan Hospital,	—	—	\$130,474 63	—	—	\$9,811 00
School for Feeble-minded at Belchertown,	—	—	—	—	—	\$51,687 38
Totals,	—	—	\$130,474 63	—	—	\$861,498 38
Aggregates,	\$806,770 14	\$6,590,554 99	\$643,448 06	\$1,565 05	\$631,341 37	\$32,116,309 98
Norfolk Hospital,	—	\$5,102 20	—	—	—	\$16,202 00

TABLE 2. — *Financial Summary for the Year ending Nov. 30, 1920* — Continued.

RESOURCES Nov. 30, 1919.					
INSTITUTIONS.					
	Inventory.	Unexpended Balance of Special Appropriation.	Accounts receivable.	Private Funds.	Total Resources.
The Insane: —					
Worcester Hospital,	\$2,173,848 87	\$19,866 68	\$8,205 53	\$17,165 27	\$2,219,086 35
Taunton Hospital,	983,127 37	13,807 57	4,897 51	—	1,001,832 45
Northampton Hospital,	1,197,906 13	11,214 12	8,483 74	772 69	1,218,376 68
Danvers Hospital,	2,595,558 97	8,198 78	11,226 82	—	2,614,984 57
Westborough Hospital,	1,466,440 57	6,353 06	12,871 94	4,019 43	1,489,685 00
Boston Hospital (including Psychopathic Department),	3,474,582 55	408,536 73	10,505 82	—	3,893,625 10
Grafton Hospital,	2,184,328 21	116,515 39	2,955 50	—	2,303,799 10
Medfield Hospital,	1,839,170 81	9,091 40	2,750 52	—	1,851,012 73
Foxborough Hospital,	809,853 80	104,351 29	1,021 75	—	915,226 84
Gardner Colony,	714,563 88	50,070 82	318 70	—	764,899 40
Totals,	\$17,439,321 16	\$748,011 84	\$63,237 83	\$21,957 39	\$18,272,528 22
Miscellaneous: —					
Monson Hospital,	\$1,002,280 52	—	\$1,435 98	—	\$1,003,716 50
School for Feeble-minded at Waltham,	1,136,349 59	\$25,334 00	804 30	\$58,020 67	1,220,508 56
Wrentham School,	1,132,500 23	3,525 15	685 98	—	1,136,711 36
Totals,	\$3,271,130 34	\$28,859 15	\$3,926 26	\$58,020 67	\$3,360,936 42
Totals, hospitals and miscellaneous,	\$20,710,451 50	\$776,870 99	\$66,164 09	\$79,978 06	\$21,633,464 64
Uncompleted projects: —					
Metropolitan Hospital,	\$9,811 00	—	—	—	\$9,811 00
School for Feeble-minded at Belchertown,	10,350 00	\$524,081 63	—	—	534,431 63
Totals,	\$20,161 00	\$524,081 63	—	—	\$544,242 63
Aggregates,	\$20,730,612 50	\$1,300,952 62	\$66,164 09	\$79,978 06	\$22,177,707 27
Norfolk Hospital,	—	—	—	—	—

TABLE 2. — *Financial Summary for the Year ending Nov. 30, 1920 — Concluded.*

INSTITUTIONS.	Net Increase in Valuation.	APPROPRIATIONS.		Receipts from All Sources except State Treasurer.	Aggregates.
		Maintenance.	Special.		
The insane: —					
Worcester Hospital,	\$645,208 25	\$769,802 50	\$38,000 00	\$95,120 67	\$3,767,217 77
Taunton Hospital,	18,888 01	521,017 22	—	51,884 74	1,593,622 42
Northampton Hospital,	42,156 53	387,984 58	7,500 00	83,492 21	1,739,510 00
Danvers Hospital,	33,329 63	630,700 00	250,000 00	91,755 19	3,620,769 39
Westborough Hospital,	—	588,918 18	3,500 00	107,665 18	2,189,766 36
Boston Hospital (including Psychopathic Department),	240,368 74	863,902 75	225,500 00	78,484 27	5,361,880 86
Gratton Hospital,	—	582,581 36	—	22,348 11	2,908,928 57
Medfield Hospital,	24,457 14	633,343 34	18,000 00	25,326 99	2,552,140 20
Foxborough Hospital,	80,939 07	270,300 00	30,000 00	17,609 19	1,314,075 10
Gardner Colony,	54,460 19	340,838 70	20,500 00	12,449 82	1,193,148 11
Totals,	\$1,139,807 56	\$5,589,386 63	\$593,000 00	\$586,336 37	\$26,181,058 78
Miscellaneous: —					
Monson Hospital,	\$1,635 32	\$422,703 36	—	\$20,952 39	\$1,448,997 57
School for Feeble-minded at Waltham,	—	501,869 90	\$5,000 00	18,397 52	1,835,775 98
Wrentham School,	57,144 99	479,467 83	110,000 00	5,655 09	1,788,979 27
Totals,	\$58,770 31	\$1,494,041 09	\$115,000 00	\$45,005 00	\$5,073,752 82
Totals, hospitals and miscellaneous,	\$1,198,577 87	\$7,083,427 72	\$708,000 00	\$631,341 37	\$31,254,811 60
Uncompleted projects: —					
Metropolitan Hospital,	\$150,063 75	—	—	—	\$9,811 00
School for Feeble-minded at Belchertown,	—	—	\$167,192 00	—	\$51,687 38
Totals,	\$150,063 75	—	\$167,192 00	—	\$861,498 38
Aggregates,	\$1,348,641 62	\$7,083,427 72	\$875,192 00	\$631,341 37	\$32,116,309 98
Norfolk Hospital,	—	\$16,202 00	—	—	\$16,202 00

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1920.*

INSTITUTIONS.	REAL ESTATE.						
	LAND.		BUILDINGS.				Totals.
	TOTAL.		Patients.	Nurses.	Farm, Stable and Grounds.	Miscella- neous.	
	Aeres.	Value.					
The insane:—							
Worcester Hospital,	589	\$402,600 00	\$1,225,886 04	\$100,268 79	\$97,561 60	\$393,700 00	\$1,817,416 43
Taunton Hospital,	336	40,500 00	499,124 00	69,040 00	58,738 76	81,735 55	618,638 31
Northampton Hospital,	513	120,787 50	468,464 25	85,222 45	42,800 00	80,992 00	677,478 70
Danvers Hospital,	517	80,452 50	1,740,768 01	61,900 00	33,500 00	118,322 33	1,954,490 34
Westborough Hospital,	704	52,827 00	554,318 64	45,050 00	28,471 63	48,141 61	675,981 88
Boston Hospital (including Psychopathic Department),	235	508,500 00	2,046,002 89	122,178 86	15,587 50	214,510 68	2,398,279 93
Grafton Hospital,	908	26,476 00	604,540 00	101,985 00	18,033 42	231,200 00	955,758 42
Medfield Hospital,	617	37,650 00	734,438 12	133,452 53	72,487 00	432,365 89	1,377,743 54
Foxborough Hospital,	283	40,100 00	533,772 58	25,500 00	6,115 00	66,780 00	632,167 58
Gardner Colony,	1,848	26,880 00	236,394 95	14,882 70	40,214 43	82,735 25	374,227 33
Totals,	6,610	\$1,336,770 00	\$8,553,709 48	\$764,480 33	\$413,509 34	\$1,750,483 31	\$11,482,182 46
Miscellaneous:—							
Monson Hospital,	661	\$14,165 00	\$408,540 98	\$35,658 75	\$23,817 10	\$76,412 33	\$544,429 16
School for Feeble-minded at Waltham,	1,992	52,150 00	425,657 25	80,021 68	25,680 00	99,560 86	631,319 79
Wrentham School,	540	15,220 00	500,974 00	69,650 00	22,129 03	104,283 65	697,036 68
School for Feeble-minded at Belchertown,	619	15,302 00	—	—	—	129,713 59	129,713 59
Totals,	3,812	\$96,837 00	\$1,335,172 23	\$185,330 43	\$71,626 13	\$410,370 43	\$2,002,499 22
Totals, hospitals and miscellaneous,	10,422	\$1,433,607 00	\$9,888,881 71	\$949,810 76	\$485,135 47	\$2,160,853 74	\$13,484,681 68

1 Includes betterments.

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1920* — Continued.

INSTITUTIONS.	REAL ESTATE — CON.					Aggregates.
	BETTERMENTS.					
	Water Systems and Ap- purtenances.	Drainage System and Ap- purtenances.	Heating and Lighting System and Ap- purtenances.	Miscellaneous.	Totals.	
The insane: —						
Worcester Hospital,	\$127,267 03	—	\$182,708 33	\$36,015 17	\$345,990 53	\$2,566,006 96
Taunton Hospital,	36,668 46	\$16,793 47	43,795 49	30,202 22	127,459 64	786,597 95
Northampton Hospital,	20,722 19	21,521 98	30,433 93	143,709 45	216,392 55	1,014,658 75
Danvers Hospital,	108,453 07	—	174,618 67	56,792 42	339,864 16	2,374,807 00
Westborough Hospital,	122,338 86	21,893 85	79,632 03	3,731 72	230,596 46	959,402 34
Boston Hospital (including Psychopathic Department),	22,809 04	231 51	70,892 86	488,480 41	582,463 82	3,489,243 75
Grafton Hospital,	32,099 80	53,678 04	73,696 05	180,381 10	339,854 99	1,322,089 41
Medfield Hospital,	53,601 08	28,954 40	89,958 51	22,398 64	194,912 63	1,610,306 17
Foxborough Hospital,	12,278 70	17,034 19	51,342 48	4,000 00	84,655 37	756,922 95
Gardner Colony,	39,895 26	23,436 30	119,330 49	13,376 91	196,038 96	597,146 29
Totals,	\$576,133 49	\$186,596 74	\$916,410 84	\$979,088 04	\$2,658,229 11	\$15,477,181 57
Miscellaneous: —						
Monson Hospital,	\$25,545 99	\$24,748 74	\$18,834 84	\$165,191 81	\$232,321 38	\$790,915 54
School for Feeble-minded at Waltham,	—	—	—	200,290 59	200,290 59	883,760 38
Wrentham School,	21,893 83	54,157 01	148,794 04	—	224,844 88	937,101 56
School for Feeble-minded at Belchertown,	—	—	—	—	—	145,015 59
Totals,	\$45,439 82	\$78,905 75	\$167,628 88	\$365,482 40	\$657,456 85	\$2,756,793 07
Totals, hospitals and miscellaneous,	\$621,573 22	\$265,502 49	\$1,084,039 72	\$1,344,570 44	\$3,315,685 96	\$18,233,974 64

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1920* — Continued.

INSTITUTIONS.	REAL AND PERSONAL PROPERTY — CON.					
	MEDICAL AND GENERAL CARE.		HEAT, LIGHT AND POWER.		FARM AND STABLE.	
	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.
The insane: —						
Worcester Hospital,	\$13,167 23	\$735 04 ¹	\$9,727 43	\$33,478 00 ¹	\$2,140 70	\$7,431 50
Taunton Hospital,	7,741 27	835 91 ¹	10,622 71	11,206 63 ¹	43,508 25	1,765 69
Northampton Hospital,	1,828 61	2 26 ¹	27,396 95	16,387 09	49,825 16	5,652 27
Danvers Hospital,	11,153 64	1,764 95 ¹	12,663 40	3,884 58	45,943 70	10,294 06
Westborough Hospital,	11,282 69	3,381 58	107,914 57	180,523 98 ¹	58,000 59	5,607 48
Weston Hospital (including Psychopathic Department),	8,548 80	785 33	9,555 87	27,005 86 ¹	15,933 91	5,231 50
Grafton Hospital,	740 32	1,209 78 ¹	37,853 15	1,100 93	14,809 50 ¹	4,729 01
Medfield Hospital,	10,889 74	711 90	31,131 64	5,462 84	19,367 17	23,053 36
Foxborough Hospital,	7,203 20	101 30 ¹	11,453 25	2,617 11	50,878 24	6,429 13
Gardner Colony,	3,006 41	250 40 ¹	9,872 32	2,125 19 ¹	17,934 26	3,308 02
Totals,	\$75,561 91	\$20 83 ¹	\$262,226 29	\$224,887 11 ¹	36,568 82	4,031 03
Miscellaneous: —					\$340,100 80	\$74,260 76
Monson Hospital,	\$11,925 40	\$561 48	\$21,565 62	\$6,182 10	\$31,002 47	\$8,722 37
School for Feeble-minded at Waltham,	15,169 51	679 00	5,658 66	36,520 59 ¹	61,252 29	53 20
Wrentham School,	6,013 31	3,714 22	54,194 67	44,116 96	31,844 42	4,306 81
School for Feeble-minded at Belchertown,	—	—	288 00	288 00	7,639 03	220 00
Totals,	\$33,111 22	\$4,954 70	\$81,646 35	\$14,066 47	\$131,741 21	\$13,302 38
Totals, hospitals and miscellaneous,	\$108,673 13	\$4,933 87	\$343,872 64	\$210,820 64 ¹	\$471,842 01	\$87,563 14
Totals,						\$61,368 16

¹ Decrease.

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1920* — Continued.

INSTITUTIONS.	REAL AND PERSONAL PROPERTY — CON.					
	REPAIRS.		TOTAL VALUATION OF PERSONAL PROPERTY.		TOTAL VALUATION OF REAL PROPERTY.	
	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.
The insane: —						
Worcester Hospital,	\$9,194 20	\$2,431 37 ¹	\$259,642 18	\$5,599 50 ¹	\$2,566,006 96	\$657,399 77
Taunton Hospital,	5,635 12	533 83 ¹	215,507 91	10,800 83	786,597 95	8,177 66
Northampton Hospital,	21,417 11	4,508 94	229,496 44	47,383 93	1,014,658 75	1,134 87 ¹
Danvers Hospital,	27,548 98	7,388 87	252,630 58	23,012 25	2,374,807 00	8,866 36
Westborough Hospital,	14,961 18	6,295 12	373,105 13	135,476 96 ¹	959,402 34	1,543 86
Boston Hospital (including Psychopathic Department),	11,269 46	599 85	223,875 49	27,910 67 ¹	3,489,243 75	266,447 36
Grafton Hospital,	15,025 89	4,241 03 ¹	219,938 61	12,391 46 ¹	1,322,089 41	629,908 73 ¹
Medford Hospital,	7,063 15	2,681 19	253,597 14	26,432 72	1,610,396 17	1,700 22 ¹
Foxborough Hospital,	8,964 65	2,708 21	133,274 43	31,731 37	756,922 95	48,612 21
Gardner Colony,	10,216 94	3,566 88 ¹	171,638 92	25,987 07	597,146 29	28,294 26
Totals,	\$131,296 68	\$13,409 07	\$2,332,706 83	\$16,030 42 ¹	\$15,477,181 57	\$386,597 66
Miscellaneous: —						
Monson Hospital,	\$16,539 27	\$2,216 06 ¹	\$212,916 55	\$6,424 26	\$790,915 54	\$4,872 69 ¹
School for Feeble-minded at Waltham,	10,895 05	3,097 95 ¹	219,831 49	28,907 51 ¹	883,760 38	3,850 21 ¹
Wrentham School,	4,421 48	326 11 ¹	252,196 29	58,808 34	937,101 56	2,010 72 ¹
School for Feeble-minded at Belchertown,	—	—	15,398 16	15,398 16	145,015 59	145,015 59
Totals,	\$31,765 80	\$5,640 12 ¹	\$700,342 49	\$51,723 25	\$2,756,793 07	\$134,281 92
Totals, hospitals and miscellaneous,	\$163,062 48	\$7,768 95	\$3,033,049 32	\$35,692 83	\$18,233,974 64	\$520,879 63

¹ Decrease.

TABLE 3. — *Inventory of State Institutions, Nov. 30, 1920 — Concluded.*

INSTITUTIONS.	REAL AND PERSONAL PROPERTY — CON.					
	TOTAL REAL AND PERSONAL.		PRIVATE FUNDS.		TOTAL INVENTORY.	
	Amount.	Increase.	Amount.	Increase.	Amount.	Increase.
The insane: —						
Worcester Hospital,	\$2,825,649 14	\$651,800 27	\$9,641 30	\$7,523 97 ¹	\$2,835,290 44	\$644,276 30
Taunton Hospital,	1,002,105 86	18,978 49	—	—	1,002,105 86	18,978 49
Northampton Hospital,	1,244,155 19	46,249 06	779 78	7 09	1,244,934 97	46,256 15
Danvers Hospital,	2,627,437 58	31,878 61	—	—	2,627,437 58	31,878 61
Westborough Hospital,	1,332,507 47	133,933 10 ¹	4,190 81	4,190 81	1,336,698 28	129,742 29 ¹
Boston Hospital (including Psychopathic Department),	3,713,119 24	238,536 69	—	—	3,713,119 24	238,536 69
Grafton Hospital,	1,542,028 02	642,300 19 ¹	—	—	1,542,028 02	642,300 19 ¹
Medfield Hospital,	1,863,903 31	24,732 50	—	—	1,863,903 31	24,732 50
Foxborough Hospital,	800,197 38	80,343 58	—	—	800,197 38	80,343 58
Gardner Colony,	768,785 21	54,281 33	—	—	768,785 21	54,281 33
Totals,	\$7,809,888 40	\$370,567 24	\$14,611 89	\$3,326 07 ¹	\$17,824,500 29	\$367,241 17
Miscellaneous: —						
Monson Hospital,	\$1,003,832 09	\$1,551 57	—	—	\$1,003,832 09	\$1,551 57
School for Feeble-minded at Waltham,	1,103,591 87	32,757 72 ¹	\$58,787 02	\$766 35	1,162,378 89	31,991 37 ¹
Wrentham School,	1,189,297 85	56,797 62	—	—	1,189,297 85	56,797 62
School for Feeble-minded at Belchertown,	160,413 75	160,413 75	—	—	160,413 75	160,413 75
Totals,	\$3,457,135 56	\$186,005 22	\$58,787 02	\$766 35	\$3,515,922 58	\$186,771 57
Totals, hospitals and miscellaneous,	\$21,267,023 96	\$556,572 46	\$73,398 91	\$2,559 72 ¹	\$21,340,422 87	\$554,012 74

¹ Decrease.

TABLE 5. — *Expenses of Maintenance, 1920.*

INSTITUTIONS.	Average Number of Patients.	PERSONAL SERVICES.				RELIGIOUS INSTRUCTION.			
		Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.
The insane: —									
Worcester Hospital,	2,016	\$217,236 21	—	\$217,236 21	\$2.0722	\$1,845 00	—	\$1,845 00	\$0.0176
Taunton Hospital,	1,356	146,320 53	—	146,320 53	2.0751	1,795 00	—	1,795 00	.0255
Northampton Hospital,	1,022	110,224 75	—	110,224 75	2.0741	1,070 00	—	1,070 00	.0201
Danvers Hospital,	1,552	198,378 36	—	198,378 36	2.4581	1,196 45	—	1,196 45	.0148
Westborough Hospital,	1,310	174,064 85	—	174,064 85	2.5553	1,579 00	—	1,579 00	.0232
Boston Hospital (including Psychopathic Department),	1,814	315,072 51	—	315,072 51	3.3402	1,773 33	—	1,773 33	.0188
Boston Hospital (excluding Psychopathic Department),	1,727	227,326 83	—	227,326 83	2.5314	1,773 33	—	1,773 33	.0197
Grafton Hospital,	1,399	152,689 71	—	152,689 71	2.0989	1,310 00	—	1,310 00	.0180
Medfield Hospital,	1,555	194,931 39	—	194,931 39	2.4107	1,693 86	—	1,693 86	.0209
Foxborough Hospital,	483	100,943 89	—	100,943 89	4.0191	1,380 00	—	1,380 00	.0549
Gardner Colony,	860	120,362 47	—	120,362 47	2.6915	1,297 50	—	1,297 50	.0290
Totals and averages,	13,367	\$1,730,224 67	—	\$1,730,224 67	\$2.4892	\$14,940 14	—	\$14,940 14	\$0.0215
Miscellaneous: —									
Monson Hospital,	970	\$134,814 16	—	\$134,814 16	\$2.6728	\$1,525 92	—	\$1,525 92	\$0.0303
School for Feeble-minded at Waltham,	1,571	187,738 01	—	187,738 01	2.2981	1,930 00	—	1,930 00	.0236
Wrentham School,	1,228	124,347 35	—	124,347 35	1.9473	1,264 00	—	1,264 00	.0198
Totals and averages,	3,769	\$446,899 52	—	\$446,899 52	\$2.2802	\$4,719 92	—	\$4,719 92	\$0.0241
Totals and averages, hospitals and miscellaneous,	17,136	\$2,177,124 19	—	\$2,197,124 19	\$2.4433	\$19,660 06	—	\$19,660 06	\$0.0221
Mental wards, State Infirmary,	608	\$89,285 08	\$25 49	\$89,259 59	\$2.4592	\$681 32	—	\$681 32	\$0.0188
Bridgewater Hospital,	828	78,985 15	—	78,985 15	1.8345	1,231 23	—	1,231 23	.0286
Totals and averages,	1,526	\$168,270 23	\$25 49	\$168,244 74	\$2.1202	\$1,912 55	—	\$1,912 55	\$0.0241
Aggregates,	18,662	\$2,345,394 42	\$25 49	\$2,345,368 93	\$2.4168	\$21,572 61	—	\$21,572 61	\$0.0222
Norfolk Hospital,	—	\$2,291 45	—	\$2,291 45	—	—	—	—	—

TABLE 5. — *Expenses of Maintenance, 1930 — Continued.*

INSTITUTIONS.	TRAVEL, TRANSPORTATION AND OFFICE EXPENSES.				FOOD.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.
The insane: —								
Worcester Hospital,	\$7,137 51	\$87 15	\$7,050 36	\$0.0673	\$180,580 82	\$320 38	\$180,260 44	\$1.7195
Taunton Hospital,	6,046 72	11 59	6,035 13	.0856	115,378 01	241 86	115,136 15	1.6414
Norfolk Hospital,	5,805 43	67 68	5,737 75	.1080	82,261 40	1,776 35	80,485 05	1.5145
Danvers Hospital,	5,994 88	6 25	5,988 63	.0742	130,320 61	470 43	130,320 61	1.6148
Westborough Hospital,	7,809 78	18 29	7,791 49	.1144	122,950 93	3,011 23	119,939 70	1.7607
Boston Hospital (including Psychopathic Department),	14,163 94	—	14,163 94	.1502	247,573 07	1,141 74	246,431 33	2.6125
Boston Hospital (excluding Psychopathic Department),	10,934 58	—	10,934 58	.1218	206,675 58	1,064 74	205,610 84	2.2896
Grafton Hospital,	5,415 84	—	5,415 84	.0744	133,657 84	1,963 25	131,694 59	1.8103
Medfield Hospital,	6,776 08	—	6,776 08	.0838	145,624 90	1,750 00	143,874 90	1.7792
Foxborough Hospital,	4,236 97	—	4,236 97	.1087	41,277 87	1,351 88	39,925 99	1.5897
Gardner Colony,	3,408 19	—	3,408 19	.0762	57,063 80	2,380 39	54,683 41	1.2228
Totals and averages,	\$86,795 34	\$190 96	\$86,604 38	\$0.0958	\$1,257,759 68	\$14,416 51	\$1,243,343 17	\$1.7888
Miscellaneous: —								
Monson Hospital,	\$4,496 95	—	\$4,496 95	\$0.0892	\$77,397 93	\$2,191 84	\$75,206 09	\$1.4910
School for Feeble-minded at Waltham,	7,302 49	\$100 42	7,202 07	.0882	141,756 48	2,421 85	139,334 63	1.7056
Wrentham School,	6,496 80	108 86	6,387 94	.1000	114,801 69	78 88	114,722 81	1.7966
Totals and averages,	\$18,296 24	\$209 28	\$18,086 96	\$0.0922	\$333,956 10	\$4,692 57	\$329,263 53	\$1.6800
Totals and averages, hospitals and miscellaneous,	\$85,091 58	\$400 24	\$84,691 34	\$0.0950	\$1,591,715 78	\$19,109 08	\$1,572,606 70	\$1.7648
Mental wards, State Infirmary,	\$2,197 88	\$19 82	\$2,178 06	\$0.0600	\$90,429 84	\$19 67	\$90,410 17	\$2.4909
Bridgewater Hospital,	2,603 06	—	2,603 06	.0604	63,572 93	611 04	62,961 89	1.4623
Totals and averages,	\$4,800 94	\$19 82	\$4,781 12	\$0.0602	\$154,002 77	\$630 71	\$153,372 06	\$1.3328
Aggregates,	\$89,892 52	\$420 06	\$89,472 46	\$0.0922	\$1,745,718 55	\$19,739 79	\$1,725,978 76	\$1.7786
Norfolk Hospital,	\$907 30	—	\$907 30	—	\$17 75	—	\$17 75	—

TABLE 5. — *Expenses of Maintenance, 1920* — Continued.

INSTITUTIONS.	CLOTHING AND CLOTHING MATERIALS.				FURNISHINGS AND HOUSEHOLD SUPPLIES.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.
The insane:—								
Worcester Hospital,	\$24,233 16	\$174 20	\$24,058 96	\$0.2295	\$38,601 28	\$275 70	\$38,325 58	\$0.3556
Taunton Hospital,	24,188 35	571 16	23,617 19	.3349	34,995 10	217 68	34,777 42	.4932
Norfolk Hospital,	11,810 65	421 14	11,389 51	.2143	20,988 60	20 00	20,968 60	.3946
Danvers Hospital,	20,940 39	178 38	20,762 01	.2573	36,350 86	113 48	36,237 38	.4490
Westborough Hospital,	24,802 41	257 28	24,545 13	.3603	30,629 12	366 70	30,262 42	.4442
Boston Hospital (including Psychopathic Department),	32,233 64	107 94	32,125 70	.3406	58,978 32	184 34	58,793 98	.6233
Boston Hospital (excluding Psychopathic Department),	30,599 62	54 96	30,544 66	.3401	49,459 28	121 63	49,337 65	.5494
Grafton Hospital,	34,576 86	721 38	33,854 64	.4654	41,993 60	44 75	41,948 85	.5766
Medford Hospital,	35,776 86	173 18	35,603 68	.4403	36,479 60	169 72	36,309 88	.4490
Foxborough Hospital,	9,726 17	57 39	9,668 78	.3850	19,444 92	—	19,444 92	.7742
Gardner Colony,	13,444 89	558 39	12,886 50	.2881	25,559 48	319 19	25,240 29	.5644
Totals and averages,	\$231,732 54	\$3,220 44	\$228,512 10	\$0.3288	\$344,026 88	\$1,711 56	\$342,309 32	\$0.4925
Miscellaneous:—								
Monson Hospital,	\$12,578 85	\$89 16	\$12,489 69	\$0.2476	\$21,893 98	\$39 27	\$21,854 71	\$0.4333
School for Feeble-minded at Waltham,	38,133 86	229 89	37,903 97	.4640	35,873 93	365 62	35,508 31	.4347
Wrentham School,	33,213 37	425 31	32,788 06	.5135	25,680 11	9 36	25,670 75	.4020
Totals and averages,	\$83,926 08	\$744 36	\$83,181 72	\$0.4244	\$83,448 02	\$414 25	\$83,033 77	\$0.4237
Totals and averages, hospitals and miscellaneous,	\$315,658 62	\$3,964 80	\$311,693 82	\$0.3498	\$427,468 90	\$2,125 81	\$425,343 09	\$0.4773
Mental wards, State Infirmary,	\$24,190 96	\$359 14	\$23,831 82	\$0.6566	\$17,516 27	\$0 79	\$17,515 48	\$0.4825
Bridgewater Hospital,	18,444 47	501 69	17,942 78	.4167	9,755 29	541 76	9,213 53	.2140
Totals and averages,	\$42,635 43	\$860 83	\$41,774 60	\$0.5265	\$27,271 56	\$542 55	\$26,729 01	\$0.3369
Aggregates,	\$358,294 05	\$4,825 63	\$353,468 42	\$0.3642	\$454,740 46	\$2,668 36	\$452,072 10	\$0.4659
Norfolk Hospital,	—	—	—	—	\$111 88	—	\$111 88	—

TABLE 5. — *Expenses of Maintenance, 1920* — Continued.

INSTITUTIONS.	MEDICAL AND GENERAL CARE.				HEAT, LIGHT AND POWER.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.
The insane:—								
Worcester Hospital,	\$23,921 07	\$1,266 75	\$22,654 32	\$0.2161	\$99,393 10	\$9 60	\$99,383 50	\$0.0480
Taunton Hospital,	19,678 42	25 40	19,653 02	.2787	51,482 02	—	51,482 02	.7301
Northampton Hospital,	10,474 04	923 63	9,550 41	.2797	55,048 02	98 98	54,949 04	1.0340
Danvers Hospital,	23,885 64	2,084 21	21,801 43	.2701	98,037 21	104 38	97,932 83	1.2135
Westborough Hospital,	13,993 95	879 08	13,114 87	.1625	115,220 96	31 95	115,189 71	1.0911
Boston Hospital (including Psychopathic Department),	20,376 51	28 42	20,348 09	.2157	114,375 61	181 62	114,383 99	1.2127
Boston Hospital (excluding Psychopathic Department),	16,285 08	4 90	16,281 05	.1813	100,168 85	180 62	99,988 23	1.1134
Grafton Hospital,	8,905 68	135 21	8,769 87	.1205	87,068 88	18 33	87,050 55	1.1966
Medfield Hospital,	10,285 34	331 90	9,953 44	.1231	82,840 60	18 80	82,821 80	1.0243
Foxborough Hospital,	9,833 35	—	9,833 35	.3915	46,674 09	—	46,674 09	1.8583
Gardner Colony,	12,619 15	1,470 02	11,149 13	.2493	22,493 73	—	22,493 73	.5030
Totals and averages,	\$153,972 55	\$7,144 62	\$146,827 93	\$0.2112	\$772,844 22	\$462 96	\$772,381 26	\$1.1112
Miscellaneous:—								
Monson Hospital,	\$7,500 41	\$413 65	\$7,086 76	\$0.1407	\$66,928 13	—	\$66,928 13	\$1.3269
School for Feeble-minded at Waltham,	15,257 06	113 42	15,143 64	.1854	31,696 55	\$412 36	31,284 19	.3830
Wrentham School,	6,806 32	31 52	6,774 80	.1061	55,535 20	—	55,535 20	.8697
Totals and averages,	\$29,572 79	\$558 59	\$29,014 20	\$0.1480	\$154,159 88	\$412 36	\$153,747 52	\$0.7845
Totals and averages, hospitals and miscellaneous,	\$183,545 34	\$7,703 21	\$175,842 13	\$0.1973	\$927,004 10	\$875 32	\$926,128 78	\$1.0393
Mental wards, State Infirmary,	\$11,362 19	\$90 77	\$11,271 42	\$0.3089	\$25,668 09	\$7 79	\$25,660 30	\$0.7070
Bridgewater Hospital,	7,508 11	—	7,508 11	.1744	42,680 10	—	42,680 10	.9912
Totals and averages,	\$18,810 30	\$90 77	\$18,719 53	\$0.2359	\$68,348 19	\$7 79	\$68,340 40	\$0.8612
Aggregates,	\$202,355 64	\$7,793 98	\$194,561 66	\$0.2005	\$995,352 29	\$883 11	\$994,469 18	\$1.0248
Norfolk Hospital,	\$1,738 89	—	\$1,738 89	—	\$13 34	—	\$13 34	—

TABLE 5. — *Expenses of Maintenance, 1920* — Continued.

INSTITUTIONS.	HEAT, LIGHT AND POWER — CON.						
	STEAMING COAL.			COAL FOR DOMESTIC PURPOSES.			TOTAL CONSUMPTION.
	SEMI-BITUMINOUS.		BUCKWHEAT AND SCREENINGS.	ANTHRACITE.		WEEKLY PER CAPITA.	Quantity, Long Tons.
	Quantity, Long Tons.	Average Price.		Quantity, Long Tons.	Average Price.		Cost, 1920.
The insane: —							
Worcester Hospital,	4,761	\$14 28	2,080	439	\$15 81	.0694	\$0. 92835
Taunton Hospital,	2,548	16 89	—	383	15 32	.0416	.69345
Northampton Hospital,	3,975	12 66	96	166	18 64	.07972	1. 02106
Danvers Hospital,	7,180	12 87	—	149	14 72	.09081	1. 17183
Westborough Hospital,	7,824	13 08	—	449	11 14	.12144	1. 57533
Boston Hospital (including Psychopathic Department),	5,579	15 29	120	1,928	13 11	.08085	1. 18538
Grafton Hospital,	—	—	—	—	—	—	—
Medfield Hospital,	4,241	10 19	6,067	166	11 12	.1440	1. 1832
Foxborough Hospital,	5,924	12 90	—	297	17 12	.0769	1. 0077
Gardner Colony,	2,934	13 00	—	393	13 23	.1325	1. 7255
	522	18 83	611	384	11 00	.0339	.4274
Totals and averages,	45,488	\$13 39	8,974	4,754	\$13 62	.0852	\$1. 0706
Miscellaneous: —							
Monson Hospital,	3,385	\$11 66	—	1,104	\$12 87	.0890	\$1. 0644
School for Feeble-minded at Waltham,	411	17 07	—	312	13 92	.0219	.2508
Wrentham School,	3,609	14 55	1,065	181	14 01	.0594	.8620
Totals and averages,	7,405	\$13 37	1,065	1,597	\$13 21	.0514	\$0. 6594
Totals and averages, hospitals and miscellaneous,	52,893	\$13 38	10,039	6,351	\$13 51	.0778	\$0. 9802
Mental wards, State Infirmary,	—	—	—	—	—	—	—
Bridgewater Hospital,	—	—	—	—	—	—	—
Totals and averages,	—	—	—	—	—	—	—
Aggregates,	—	—	—	—	—	—	—
Norfolk Hospital,	—	—	—	—	—	—	—

TABLE 5. — *Expenses of Maintenance, 1920* — Continued.

INSTITUTIONS.	FARM AND STABLE.				GARAGE, STABLE AND GROUNDS.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.
The insane: —								
Worcester Hospital,	\$41,757 03	\$1,100 03	\$40,657 00	\$0.3878	\$8,356 00	\$143 25	\$8,212 75	\$0.0784
Taunton Hospital,	41,544 24	574 10	40,970 14	.5810	5,199 08	11 34	5,187 74	.0736
Northampton Hospital,	23,943 53	775 25	23,168 28	.4359	5,186 85	—	5,186 85	.0976
Danvers Hospital,	36,510 21	947 91	35,562 30	.4406	9,856 37	162 06	9,694 31	.1201
Westborough Hospital,	35,181 63	324 28	34,857 35	.5117	7,406 03	4 21	7,401 82	.1087
Boston Hospital (including Psychopathic Department),	12,232 94	695 33	11,537 61	.1223	13,084 35	—	13,084 35	.1387
Boston Hospital (excluding Psychopathic Department),	12,223 91	695 33	11,528 58	.1284	12,949 24	—	12,949 24	.1441
Grafton Hospital,	38,950 47	692 64	38,257 83	.5259	8,181 52	—	8,181 52	.1125
Medfield Hospital,	42,245 50	820 70	41,424 80	.5111	8,936 15	36 99	8,899 16	.1101
Foxborough Hospital,	17,836 02	215 13	17,620 87	.7016	5,721 18	—	5,721 18	.2278
Gardner Colony,	35,464 82	759 33	34,705 49	.7761	5,809 59	8 64	5,800 95	.1297
Totals and averages,	\$325,666 48	\$6,904 72	\$318,761 76	\$0.4586	\$77,737 12	\$366 49	\$77,370 63	\$0.1113
Miscellaneous: —								
Monson Hospital,	\$28,205 10	\$1,752 96	\$26,452 14	\$0.5244	\$6,266 03	—	\$6,266 03	\$0.1242
School for Feeble-minded at Waltham,	53,841 59	1,775 56	52,066 03	.6373	11,071 85	—	11,071 85	.1355
Wrentham School,	43,876 78	277 77	43,599 01	.6828	11,489 96	\$41 49	11,448 47	.1793
Totals and averages,	\$125,923 47	\$3,806 29	\$122,117 18	\$0.6231	\$28,827 84	\$41 49	\$28,786 35	\$0.1469
Totals and averages, hospitals and miscellaneous,	\$451,589 95	\$10,711 01	\$440,878 94	\$0.4919	\$106,564 96	\$407 98	\$106,156 98	\$0.1191
Mental wards, State Infirmary,	\$10,868 40	\$328 54	\$10,539 86	\$0.2904	\$4,990 09	\$1 40	\$4,988 69	\$0.1374
Bridgewater Hospital,	27,418 25	14,412 73	13,005 52	.3021	1,037 62	—	1,037 62	.0241
Totals and averages,	\$38,286 65	\$14,711 27	\$23,545 38	\$0.2967	\$6,027 71	\$1 40	\$6,026 31	\$0.0759
Aggregates,	\$489,876 60	\$25,452 28	\$464,424 32	\$0.4786	\$112,592 67	\$409 38	\$112,183 29	\$0.1156
Norfolk Hospital,	—	—	—	—	\$21 59	—	\$21 59	—

TABLE 5. — *Expenses of Maintenance, 1920* — Continued.

INSTITUTIONS.	REPAIRS, ORDINARY.				REPAIRS AND RENEWALS.			
	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.	Gross Expenses.	Receipts.	Net Expenses.	Net Weekly Per Capita, 1920.
The insane:—								
Worcester Hospital,	\$17,850 86	\$20 40	\$17,830 46	\$0 1701	\$16,383 84	—	\$16,383 84	\$0 1563
Taunton Hospital,	14,984 95	732 78	14,252 17	.2921	9,325 01	—	9,325 01	.1323
Northampton Hospital,	14,821 45	33 77	21,787 68	.2782	8,879 29	—	8,879 29	.1671
Danvers Hospital,	21,528 58	56 06	21,472 52	.2661	5,170 98	—	5,170 98	.0041
Westborough Hospital,	16,430 36	130 97	16,299 39	.2393	6,747 35	—	6,747 35	.0991
Boston Hospital (including Psychopathic Department),	22,638 61	8 60	22,630 01	.2399	1,986 18	—	1,986 18	.0210
Boston Hospital (excluding Psychopathic Department),	18,149 55	8 60	18,140 95	.2020	1,986 18	—	1,986 18	.0221
Grafton Hospital,	18,276 42	236 44	18,039 98	.2480	7,019 08	—	7,019 08	.0965
Medfield Hospital,	27,535 41	284 65	27,251 36	.3370	360 71	—	360 71	.0045
Foxborough Hospital,	8,169 89	115 75	8,054 14	.3207	2,845 09	—	2,845 09	.1133
Gardner Colony,	15,457 23	87 78	15,369 45	.3437	2,222 82	—	2,222 82	.0497
Totals and averages,	\$177,693 76	\$1,706 60	\$175,987 16	\$0 2532	\$60,940 35	—	\$60,940 35	\$0 0877
Miscellaneous:—								
Monson Hospital,	\$15,066 32	\$48 84	\$15,017 48	\$0 2977	\$2,287 83	—	\$2,287 83	\$0 0453
School for Feeble-minded at Waltham,	22,390 28	83 63	22,306 65	.2731	5,500 00	—	5,500 00	.0673
Wrentham School,	17,370 38	94 21	17,276 17	.2705	3,882 59	—	3,882 59	.0608
Totals and averages,	\$54,826 98	\$226 68	\$54,600 30	\$0 2786	\$11,670 42	—	\$11,670 42	\$0 0595
Totals and averages, hospitals and miscellaneous,	\$232,520 74	\$1,933 28	\$230,587 46	\$0 2588	\$72,609 77	—	\$72,609 77	\$0 0815
Mental wards, State Infirmary,	\$14,828 00	\$143 59	\$14,684 41	\$0 4046	\$6,972 04	—	\$6,972 04	\$0 1921
Bridgewater Hospital,	9,217 01	68 70	9,148 31	.2125	3,184 90	—	3,184 90	.0740
Totals and averages,	\$24,045 01	\$212 29	\$23,832 72	\$0 3003	\$10,156 94	—	\$10,156 94	\$0 1280
Aggregates,	\$256,565 75	\$2,145 57	\$254,420 18	\$0 2622	\$82,767 71	—	\$82,767 71	\$0 0853
Norfolk Hospital,	—	—	—	—	—	—	—	—

TABLE 5. — *Expenses of Maintenance, 1920* — Concluded.

INSTITUTIONS.	MAINTENANCE APPROPRIATIONS.				
	Amount appropriated by Legislature.	Balance from previous Year.	Total Appropriation.	Deficiencies.	Balance reverting to State Treasurer.
The insane: —					
Worcester Hospital,	\$767,400 00	\$2,402 50	\$769,802 50	—	\$92,506 62
Taunton Hospital,	520,800 00	217 22	521,017 22	—	49,479 79
Northampton Hospital,	355,900 00	32,084 58	387,984 58	—	37,470 57
Danvers Hospital,	630,700 00	—	630,700 00	—	42,059 03
Westborough Hospital,	587,900 00	1,016 18	588,916 18	—	32,089 81
Boston Hospital (including Psychopathic Department),	863,800 00	102 75	863,902 75	—	9,213 74
Boston Hospital (excluding Psychopathic Department),	—	—	—	—	—
Grafton Hospital,	580,100 00	2,481 36	582,581 36	—	44,536 90
Nedfield Hospital,	632,300 00	43 34	632,343 34	—	39,856 85
Foxborough Hospital,	270,300 00	—	270,300 00	—	2,210 56
Gardner Colony,	340,500 00	338 70	340,838 70	—	25,635 03
Totals and averages,	\$5,550,700 00	\$38,686 63	\$5,589,386 63	—	\$375,058 90
Miscellaneous: —					
Monson Hospital,	\$422,400 00	\$303 36	\$422,703 36	—	\$43,732 75
School for Feeble-minded at Waltham,	591,827 00	42 90	591,869 90	—	39,377 80
Wrentham School,	478,700 00	767 83	479,467 83	—	34,703 28
Totals and averages,	\$1,492,927 00	\$1,114 09	\$1,494,041 09	—	\$117,813 83
Totals and averages, hospitals and miscellaneous,	\$7,043,627 00	\$39,800 72	\$7,083,427 72	—	\$492,872 73
Mental wards, State Infirmary,	\$312,076 54	—	\$312,076 54	—	\$13,146 38
Bridgewater Hospital,	265,923 43	\$1,176 59	267,100 02	—	1,461 91
Totals and averages,	\$577,999 97	\$1,176 59	\$579,176 56	—	\$14,608 29
Aggregates,	\$7,621,626 97	\$40,977 31	\$7,662,604 28	—	\$507,481 02
Norfolk Hospital,	\$16,200 00	\$2 00	\$16,202 00	—	\$11,099 80

TABLE 6. — *Whole Weekly Per Capita Cost of Support of a Patient in the Institutions for the Insane, Feeble-minded and Epileptic for the Fiscal Year ending Nov. 30, 1920.*

INSTITUTIONS.	Average Number of Patients, 1920.	Total of Real and Personal Property.	Per Capita Valuation.	WEEKLY PER CAPITA COST.						
				Interest 3.54 Per Cent.	Depreciation.	Maintenance, exclusive of Repairs and Improvements.	Gross Cost.	Receipts.	Net Cost.	
The insane:—										
Worcester Hospital,	2,016	\$2,825,649 14	\$1,401 61	\$0 95	\$0 65	\$6 00	\$7 60	\$0 91	\$6 69	
Taunton Hospital,	1,356	1,002,105 86	739 01	50	55	6 14	7 19	74	6 45	
Northampton Hospital,	1,022	1,244,155 19	1,217 37	83	64	5 95	7 42	1 57	5 85	
Danvers Hospital,	1,552	2,627,437 58	1,692 93	1 15	61	6 69	8 45	1 14	7 31	
Westborough Hospital,	1,310	1,332,507 47	1,017 18	69	54	7 64	8 87	1 58	7 29	
Boston Hospital (including Psychopathic Department),	1,814	3,713,119 24	2,046 92	1 39	42	8 64	10 45	83	9 62	
Grafton Hospital,	1,399	1,542,028 02	1,102 23	75	56	6 84	8 15	31	7 84	
Medfield Hospital,	1,555	1,863,903 31	1,198 65	82	63	6 80	8 25	31	7 94	
Foxborough Hospital,	483	890,197 38	1,843 05	1 25	81	9 87	11 93	70	11 23	
Gardner Colony,	860	768,785 21	893 93	61	62	6 42	7 65	28	7 37	
Totals and averages,	13,367	\$17,809,888 40	\$1,332 37	\$0 91	\$0 59	\$6 96	\$8 46	\$0 84	\$7 62	
Miscellaneous:—										
Monson Hospital,	970	\$1,003,832 09	\$1,034 87	\$0 70	\$0 47	\$7 05	\$8 22	\$0 42	\$7 80	
School for Feeble-minded at Waltham,	1,571	1,103,591 87	702 47	48	51	6 25	7 24	23	7 01	
Wrentham School,	1,228	1,189,297 85	968 48	66	47	6 50	7 63	09	7 54	
Totals and averages,	3,769	\$3,296,721 81	\$874 69	\$0 60	\$0 48	\$6 54	\$7 62	\$0 23	\$7 39	
Totals and averages for hospitals and miscellaneous,	17,136	\$21,106,610 21	\$1,231 71	\$0 84	\$0 56	\$6 86	\$8 26	\$0 71	\$7 55	

TABLE 7. — *Receipts and Expenses on Account of Institutions for the Insane, Feeble-minded and Epileptic for the Fiscal Year ending Nov. 30, 1920.*

INSTITUTIONS.	EXPENSES.				Total Receipts.	Net Expenses.
	Increase- ing Value of Plant.	Which counterbalance Depreciation.	Maintenance, exclusive of Repairs and Im- provements.	Total Expenses.		
Department of Mental Diseases:—						
Office, traveling and contingent expenses, salaries and printing	—	—	\$83,428 49	\$83,428 49	\$1,379 69	\$81,848 80
annual report,	—	—	5,822 76	5,822 76	443 35	5,379 41
Transportation and deportation of patients,	—	—	7,315 94	7,315 94	147 10	7,168 84
Investigation of mental diseases and defects,	—	—				
Totals,	—	—	\$96,567 19	\$96,567 19	\$2,170 14	\$94,397 05
The insane:—						
Worcester Hospital,	\$11,814 93	\$68,254 59	\$628,999 76	\$709,069 28	\$95,120 67	\$613,948 61
Taunton Hospital,	11,778 33	38,842 31	432,695 12	483,315 76	51,384 74	431,931 02
Northampton Hospital,	2,379 56	34,121 11	316,392 90	352,893 57	83,492 21	269,401 36
Danvers Hospital,	16,320 35	49,419 91	539,367 84	606,208 10	91,755 19	514,452 91
Westborough Hospital,	5,676 53	36,645 78	520,180 59	562,502 90	107,665 18	454,837 72
Boston Hospital (including Psychopathic Department),	312,066 32	39,464 22	815,224 79	1,166,755 33	78,484 27	1,088,271 06
Grafton Hospital,	7,964 10	40,801 27	497,243 19	546,008 56	22,548 11	523,460 45
Medford Hospital,	13 47	51,068 88	549,738 52	600,820 87	25,326 90	575,493 88
Foxborough Hospital,	78,847 28	20,290 48	247,798 96	346,936 72	17,609 19	329,327 53
Gardner Colony,	33,215 29	27,942 57	287,261 10	348,418 96	12,449 82	335,969 14
Totals,	\$480,576 16	\$406,851 12	\$4,835,502 77	\$5,722,930 05	\$586,336 37	\$5,136,593 68

Miscellaneous:—									
Mental wards, State Infirmary,	.	.	.	.	\$28,892 65	\$270,037 51	\$298,930 16	\$2,312 65	\$296,617 51
Bridgewater Hospital (insane),	.	.	.	.	15,683 20	249,954 92	265,638 12	19,065 00	246,572 52
Monson Hospital (insane),	.	.	.	.	7,148 52	107,714 74	114,863 26	6,350 52	108,512 74
Totals,	.	.	.	.	\$51,724 37	\$627,707 17	\$679,431 54	\$27,728 77	\$651,702 77
Family care,									
	.	.	.	.	—	\$6,184 38	\$6,184 38	—	\$6,184 38
Totals for insane, . . . . .	.	.	.	.	\$458,575 49	\$5,469,394 32	\$6,408,545 97	\$614,065 14	\$5,794,480 83
Feeble-minded:—									
School for Feeble-minded at Waltham,	.	.	.	.	\$1,133 77	\$510,623 27	\$553,625 87	\$18,397 52	\$535,228 35
Wrentham School, ¹ . . . . .	.	.	.	.	133,711 97	414,979 87	578,476 52	5,655 09	572,821 43
Totals for the feeble-minded, . . . . .	.	.	.	.	\$134,845 74	\$925,603 24	\$1,132,102 39	\$24,052 61	\$1,108,049 78
Epileptic:—									
Monson Hospital (sane), . . . . .	.	.	.	.	\$16,436 77	\$247,670 58	\$264,107 35	\$14,601 87	\$249,505 48
Hospital Cottages for Children, . . . . .	.	.	.	.	—	12,114 14	12,114 14	17 14	12,097 00
Totals for epileptics, . . . . .	.	.	.	.	\$16,436 77	\$259,784 72	\$276,221 49	\$14,619 01	\$261,602 48
Aggregates, . . . . .	.	.	.	.	\$615,421 90	\$6,751,349 47	\$7,913,437 04	\$654,906 90	\$7,258,530 14

¹ Includes Belchertown.

TABLE 8. — *General Statement as to Special Appropriations, 1920.*

INSTITUTIONS.	Balances brought forward from Previous Years.	New Appropriations for 1920.	Total of Live Appropriations.	EXPENDED DURING FISCAL YEAR ENDING Nov. 30, 1920.		
				Land.	MISCELLANEOUS.	
					Adding to Original Value.	Repairs and Renewals.
The insane:—						
Worcester Hospital,	\$19,866 68	\$38,000 00	\$57,866 68	—	\$11,814 93	\$19,938 47
Taunton Hospital,	13,847 57	—	13,807 57	—	11,778 33	—
Northampton Hospital,	11,214 12	7,500 00	18,714 12	—	2,379 56	—
Danvers Hospital,	8,198 78	250,000 00	258,198 78	—	16,820 35	746 78
Westborough Hospital,	6,353 06	3,500 00	9,853 06	—	5,676 53	—
Boston Hospital (including Psychopathic Department),	408,536 73	225,500 00	634,036 73	—	312,066 32	—
Grafton Hospital,	116,515 39	—	116,515 39	—	7,964 10	—
Medfield Hospital,	9,091 40	18,000 00	27,091 40	\$13 47	—	7,320 91
Foxborough Hospital,	104,351 29	30,000 00	134,351 29	250 00	78,597 28	—
Gardner Colony,	50,076 82	20,500 00	70,576 82	—	33,215 29	—
Totals,	\$748,011 84	\$593,000 00	\$1,341,011 84	\$263 47	\$480,312 69	\$28,026 16
Miscellaneous:—						
Monson Hospital,	—	—	—	—	—	—
School for Feeble-minded at Waltham,	\$25,334 00	\$5,000 00	\$30,334 00	—	\$1,133 77	—
Wrentham School,	3,525 15	110,000 00	113,525 15	\$1,259 49	1,977 85	—
School for Feeble-minded at Belchertown,	524,081 63	167,192 00	691,273 63	—	130,474 63	—
Totals,	\$552,940 78	\$382,192 00	\$935,132 78	\$1,259 49	\$133,586 25	—
Totals, hospitals and miscellaneous,	\$1,300,952 62	\$975,192 00	\$2,276,144 62	\$1,522 96	\$613,898 94	\$28,026 16
Norfolk Hospital,	\$2,761 44	—	\$2,761 44	—	\$196 25	—

TABLE 8. — *General Statement as to Special Appropriations, 1920 — Concluded.*

INSTITUTIONS.	EXPENDED DURING FISCAL YEAR ENDING Nov. 30, 1920 — Con.				Total Expenditures to Date.	Balance at End of Current Fiscal Year.	Reverted Balances.
	TOTAL EXPENDITURES.						
	Adding to Original Value.	Repairs and Renovels.	Total Expenditures during Fiscal Year.				
The insane:—							
Worcester Hospital,	\$11,814 93	\$19,958 47	\$31,773 40	\$138,594 72	\$24,874 43	\$1,218 85	
Taunton Hospital,	11,778 33	—	11,778 33	23,955 76	2,029 24	—	
Northampton Hospital,	2,379 56	—	2,379 56	106,465 44	16,322 58	11 98	
Danvers Hospital,	16,820 35	746 78	17,567 13	45,868 35	240,623 27	8 38	
Westborough Hospital,	5,676 53	—	5,676 53	84,800 91	4,174 51	2 02	
Boston Hospital (including Psychopathic Department),	312,066 32	—	312,066 32	728,844 59	321,952 17	18 24	
Grafton Hospital,	7,964 10	—	7,964 10	21,860 21	108,551 29	—	
Medfield Hospital,	13 47	7,320 91	7,334 38	42,492 98	19,519 67	237 35	
Foxborough Hospital,	78,847 28	—	78,847 28	333,037 71	55,454 79	49 22	
Gardner Colony,	33,215 29	—	33,215 29	46,212 47	37,361 53	—	
Totals,	\$480,576 16	\$28,026 16	\$508,602 32	\$1,572,133 14	\$30,863 48	\$1,546 04	
Miscellaneous:—							
Monson Hospital,	—	—	—	—	—	—	
School for feeble-minded at Waltham,	\$1,133 77	—	\$1,133 77	\$28,999 77	\$29,190 95	\$9 28	
Wrentham School,	3,237 34	—	3,237 34	79,182 89	110,278 08	9 73	
School for feeble-minded at Belchertown,	130,474 63	—	130,474 63	257,393 00	560,779 00	—	
Totals,	\$134,845 74	—	\$134,845 74	\$365,575 66	\$700,268 02	\$19 01	
Totals, hospitals and miscellaneous,	\$615,421 90	\$28,026 16	\$643,448 06	\$1,937,708 80	\$1,531,131 51	\$1,565 05	
Norfolk Hospital,	\$196 25	—	\$196 25	\$60,934 81	\$2,565 19	—	

TABLE 9. — Comparative Analysis of Pay Roll, by Departments.

INSTITUTIONS.	MEDICAL SERVICE.				ADMINISTRATION.			
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —								
Worcester Hospital,	13	8.62	\$143 16	\$0.1413	26	20.49	\$71 06	\$0.1067
Taunton Hospital,	9	7.60	150 91	.1952	17	15.81	65 69	.1764
Northampton Hospital,	8	5.57	192 28	.2418	12	8.47	70 99	.1339
Danvers Hospital,	11	6.63	177 67	.1751	19	17.63	63 29	.1659
Westborough Hospital,	9	6.42	164 38	.1889	18	17.48	61 45	.1892
Boston Hospital (including Psychopathic Department),	27	20.49	155 26	.4047	51	45.58	72 47	.4202
Grafton Hospital,	7	4.97	153 92	.1262	14	12.33	75 87	.1543
Medfield Hospital,	9	8.39	184 11	.2085	15	12.15	67 13	.1210
Foxborough Hospital,	5	5.24	152 98	.3330	12	12.52	62 86	.3760
Gardner Colony,	5	4.38	178 52	.2100	15	9.00	70 68	.1707
Totals and averages,	103	78.31	\$161 16	\$0.2179	199	171.46	\$68 54	\$0.2029
Miscellaneous: —								
Monson Hospital,	8	6.26	\$170 09	\$0.2574	17	13.27	\$76 31	\$0.2409
School for Feeble-minded at Waltham,	9	5.83	213 22	.1826	22	13.30	73 65	.1655
Wrentham School,	8	5.99	196 16	.2208	16	13.17	65 65	.1625
Totals and averages,	25	18.18	\$192 50	\$0.2143	55	41.74	\$71 97	\$0.1839
Totals and averages, hospitals and miscellaneous,	128	96.49	\$167 06	\$0.2171	254	213.20	\$66 21	\$0.1987

TABLE 9. — *Comparative Analysis of Pay Roll, by Departments* — Continued.

INSTITUTIONS.	KITCHEN AND DINING-ROOM SERVICE.				DOMESTIC SERVICE.			
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —								
Worcester Hospital,	17	16.11	\$58.66	\$0.1082	74	53.98	\$41.96	\$0.2593
Taunton Hospital,	17	15.85	53.66	.1448	38	18.76	41.85	.1336
Northampton Hospital,	16	9.54	66.23	.1426	21	13.60	51.77	.1590
Danvers Hospital,	20	17.76	53.14	.1403	32	28.23	43.64	.1332
Westborough Hospital,	25	21.70	53.81	.2057	32	25.25	45.18	.2010
Boston Hospital (including Psychopathic Department),	24	20.13	64.16	.1643	64	55.81	43.10	.3060
Grafton Hospital,	19	14.01	58.30	.1347	46	29.54	42.32	.2062
Medfield Hospital,	26	22.45	52.11	.1736	47	31.80	43.81	.2053
Foxborough Hospital,	9	7.53	61.98	.2230	18	14.18	44.64	.3024
Gardner Colony,	22	16.77	60.61	.2728	14	12.03	61.85	.2093
Totals and averages,	195	161.85	\$57.46	\$0.1605	386	283.18	\$44.42	\$0.2172
Miscellaneous: —								
Monson Hospital,	20	14.84	\$64.80	\$0.2388	24	16.10	\$54.29	\$0.2080
School for Feeble-minded at Waltham,	19	14.40	65.03	.1376	22	16.48	52.79	.1278
Wrentham School,	12	9.68	59.91	.1090	14	9.48	56.20	.1001
Totals and averages,	51	38.92	\$63.67	\$0.1517	60	42.06	\$54.13	\$0.1394
Totals and averages, hospitals and miscellaneous,	246	200.77	\$58.66	\$0.1586	446	335.24	\$45.67	\$0.2001

TABLE 9. — Comparative Analysis of Pay Roll, by Departments — Continued.

INSTITUTIONS.	MALE WARD SERVICE.									
	Full Roster.	Average Number of Males in Service.	Full Roster.	Average Number of Females in Service.	Full Roster.	Average Number of Total Persons.	Number of Patients to One Nurse.	AVERAGE MONTHLY COMPEN- SATION.		Weekly Per Capita Cost.
								Males.	Females.	
The insane: —										
Worcester Hospital,	117	70.62	3	3.82	120	74.44	13.57	\$49 15	\$48 69	\$0 4186
Taunton Hospital,	86	22.97	—	12.18	86	35.15	18.55	51.55	53.61	.3126
Northampton Hospital,	59	22.54	—	—	59	22.54	22.64	58.38	—	.2971
Danvers Hospital,	85	53.54	—	11.40	85	64.94	10.30	52.64	50.88	.5054
Westborough Hospital,	64	48.71	3	1.67	67	56.38	10.61	52.43	63.00	.4684
Boston Hospital (including Psycho- pathic Department),	108	82.17	3	2.55	111	84.72	9.46	52.09	50.81	.5910
Grafton Hospital,	63	41.99	—	.40	64	45.39	14.79	49.35	48.67	.3095
Medfield Hospital,	68	56.93	1	—	68	56.93	10.75	49.39	—	.4173
Foxborough Hospital,	31	24.51	1	1.17	32	25.68	9.14	52.21	54.33	.6668
Gardner Colony,	42	28.87	2	1.31	44	30.18	16.57	56.43	52.79	.4557
Totals and averages,	723	455.85	13	34.50	736	400.35	12.63	\$51 80	\$52 34	\$0 4389
Miscellaneous: —										
Monson Hospital,	50	35.70	3	5.37	53	41.07	11.56	\$57 45	\$58 62	\$0 5629
School for Feeble-minded at Waltham, Wrentham School,	17 13	15.61 6.63	70 —	53.44 20.16	87 13	69.05 26.79	13.08 18.92	51.52 48.10	51.55 52.29	.5288 .2528
Totals and averages,	80	57.94	73	78.97	153	136.91	14.06	\$54 78	\$52 32	\$0 4468
Totals and averages, hospitals and miscellaneous,	803	513.79	86	113.47	889	627.26	12.94	\$50 50	\$52 25	\$0 4407

TABLE 9. — *Comparative Analysis of Pay Roll, by Departments — Continued.*

INSTITUTIONS.	FEMALE WARD SERVICE.					TOTAL WARD SERVICE.				
	Full Roster.	Average Number of Females in Service.	Average Number of Patients to One Nurse.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Number of Persons to One Employee.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —										
Worcester Hospital,	130	75.15	13.02	\$49.05	\$0.4219	250	149.59	13.29	\$49.09	\$0.8405
Taunton Hospital,	83	39.58	17.15	52.37	.3528	169	74.73	17.80	52.32	.6654
Northampton Hospital,	60	21.32	23.22	60.48	.2911	119	43.86	22.97	59.40	.5883
Danvers Hospital,	100	52.73	18.94	53.45	.4190	185	117.67	12.91	52.83	.3244
Westborough Hospital,	82	50.28	14.92	53.66	.4753	149	100.66	13.01	53.22	.9437
Boston Hospital (including Psychopathic Department),	149	106.14	9.45	54.40	.7346	260	190.86	9.45	53.36	1.2956
Grafton Hospital,	63	40.16	17.87	50.16	.3323	127	85.55	16.23	49.73	.7017
Medfield Hospital,	102	69.80	13.36	51.50	.5334	170	126.73	12.18	50.55	.9507
Foxborough Hospital,	31	20.63	12.01	52.22	.5147	63	46.31	10.42	53.40	1.1815
Gardner Colony,	32	25.72	12.16	54.88	.3788	76	55.90	14.54	55.63	.8345
Totals and averages,	832	501.51	14.30	\$52.71	\$0.4564	1,568	991.86	13.47	\$52.28	\$0.8053
Miscellaneous: —										
Monson Hospital,	62	29.29	16.89	\$61.83	\$0.4308	115	70.36	13.78	\$59.36	\$0.9937
School for Feeble-minded at Waltham,	73	51.82	12.09	51.44	.3916	160	120.87	12.99	51.50	.9144
Wrentham School,	118	43.21	16.68	50.56	.4106	131	70.00	17.54	50.83	.6686
Totals and averages,	253	124.32	14.81	\$53.58	\$0.4079	406	261.23	14.42	\$53.43	\$0.8547
Totals and averages, hospitals and miscellaneous,	1,085	625.83	14.40	\$52.88	\$0.4457	1,974	1,253.09	13.67	\$52.52	\$0.8864

TABLE 9. — *Comparative Analysis of Pay Roll, by Departments* — Continued.

INSTITUTIONS.	INDUSTRIAL AND EDUCATIONAL DEPARTMENT.				ENGINEERING DEPARTMENT.			
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —								
Worcester Hospital,	6	3.30	\$65.50	\$0.0248	21	15.47	\$139.40	\$0.2628
Taunton Hospital,	3	2.79	89.99	.0427	18	15.80	126.15	.3392
Northampton Hospital,	3	2.35	76.34	.0405	14	9.64	141.60	.3082
Danvers Hospital,	3	2.25	89.46	.0299	22	19.18	134.18	.3827
Westborough Hospital,	1	.55	75.92	.0074	26	18.36	138.67	.4485
Boston Hospital (including Psychopathic Department),	7	6.65	63.56	.0539	25	22.58	130.31	.3743
Grafton Hospital,	4	2.67	85.89	.0378	24	18.99	102.75	.3219
Medfield Hospital,	6	5.34	70.28	.0557	17	14.92	132.91	.2943
Foxborough Hospital,	6	4.52	70.36	.1520	12	10.41	135.01	.6715
Gardner Colony,	9	7.17	79.49	.1529	8	6.67	135.70	.2429
Totals and averages,	48	37.60	\$74.61	\$0.0484	187	153.02	\$130.44	\$0.3447
Miscellaneous: —								
Monson Hospital,	4	2.14	\$94.22	\$0.0480	11	9.14	\$136.50	\$0.2968
School for Feeble-minded at Waltham,	24	18.45	69.81	.1891	13	11.64	139.47	.2385
Wrentham School,	18	14.49	64.17	.1747	10	8.45	139.92	.2222
Totals and averages,	46	35.08	\$68.73	\$0.1481	34	29.23	\$167.18	\$0.2482
Totals and averages, hospitals and miscellaneous,	94	72.68	\$71.89	\$0.0704	221	182.25	\$131.76	\$0.3234

TABLE 9. — *Comparative Analysis of Pay Roll, by Departments* — Continued.

INSTITUTIONS.	REPAIRS.				FARM.			
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —								
Worcester Hospital,	14	8.76	\$133.77	\$0.1341	18	14.40	\$58.70	\$0.0977
Taunton Hospital,	12	9.20	131.63	.2061	16	10.70	65.82	.1199
Northampton Hospital,	7	6.43	135.05	.1961	19	15.15	63.92	.2187
Danvers Hospital,	15	13.60	134.64	.2723	18	15.04	62.38	.1395
Westborough Hospital,	13	8.69	129.15	.1977	18	12.42	60.73	.1329
Boston Hospital (including Psychopathic Department),	11	9.25	133.69	.1573	12	10.06	53.97	.0691
Grafton Hospital,	15	9.87	139.92	.2131	27	19.39	55.02	.1760
Medford Hospital,	13	9.74	135.63	.1960	25	18.00	55.40	.1480
Foxborough Hospital,	8	5.49	140.79	.3693	9	8.49	67.62	.2743
Gardner Colony,	9	5.48	156.06	.2295	16	14.78	74.79	.2966
Totals and averages,	117	86.51	\$135.04	\$0.2017	178	138.43	\$61.43	\$0.1468
Miscellaneous: —								
Monson Hospital,	5	3.79	\$137.01	\$0.1235	14	14.19	\$67.54	\$0.2280
School for Feeble-minded at Waltham,	9	7.77	150.87	.1722	23	15.64	62.88	.1445
Wrentham School,	8	5.02	141.63	.1336	13	8.94	68.23	.1147
Totals and averages,	22	16.58	\$141.90	\$0.1471	50	38.77	\$65.82	\$0.1563
Totals and averages, hospitals and miscellaneous,	139	103.09	\$136.62	\$0.1897	228	177.20	\$62.39	\$0.1489

TABLE 9. — *Comparative Analysis of Pay Roll, by Departments — Concluded.*

INSTITUTIONS.	GARAGE, STABLE AND GROUNDS.				ALL PERSONS EMPLOYED.				
	Full Roster.	Average Number of Persons.	Average Monthly Compensation.	Average Weekly Per Capita Cost.	Full Roster.	Average Number of Persons.	Number of Persons to One Employee.	Average Monthly Compensation.	Average Weekly Per Capita Cost.
The insane: —									
Worcester Hospital,	7	5.48	\$58.82	\$0.0369	446	297.20	6.69	\$60.91	\$2.0722
Taunton Hospital,	5	3.20	95.16	.0518	304	174.44	7.63	69.90	2.0751
Northampton Hospital,	4	2.64	75.49	.0450	223	117.25	8.39	78.34	2.0741
Danvers Hospital,	6	4.92	61.19	.0448	331	242.91	6.29	68.06	2.4581
Westborough Hospital,	6	4.27	57.58	.0433	297	215.80	5.95	67.22	2.5553
Boston Hospital (including Psychopathic Department),	16	13.60	54.79	.0948	497	395.02	4.57	66.47	3.3402
Grafton Hospital,	4	2.84	57.45	.0269	287	200.16	6.94	63.57	2.0989
Medfield Hospital,	7	6.62	58.59	.0576	335	256.14	6.03	63.42	2.4107
Foxborough Hospital,	3	2.70	66.76	.0861	145	117.39	4.11	71.66	4.0191
Gardner Colony,	4	3.32	81.13	.0723	178	135.50	6.00	74.02	2.6915
Totals and averages,	62	49.59	\$62.90	\$0.0538	3,043	2,151.81	6.21	\$67.00	\$2.4892
Miscellaneous: —									
Monson Hospital,	8	3.36	\$59.68	\$0.0477	226	153.55	6.31	\$73.17	\$2.6728
School for Feeble-minded at Waltham,	4	3.04	58.09	.0259	305	229.42	6.85	68.19	2.2981
Wrentham School,	4	3.49	62.73	.0411	234	148.71	8.29	69.68	1.9473
Totals and averages,	16	9.89	\$60.26	\$0.0365	765	531.68	7.08	\$70.04	\$2.2802
Totals and averages, hospitals and miscellaneous,	78	59.48	\$62.45	\$0.0500	3,808	2,683.49	6.38	\$67.60	\$2.4433

GENERAL STATISTICS

TABLE 10. — *Statistical Form for State Institutions, etc. — Continued.*

INSTITUTIONS.	POPULATION — Con.								
	NUMBER AT END OF FISCAL YEAR.			DAILY AVERAGE NUMBER OF PATIENTS ON BOOKS DURING YEAR.			AVERAGE NUMBER OF OFFICERS AND EMPLOYEES DURING THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.			
Worcester State Hospital,	1,172	1,099	2,271	1,163	1,075	2,238	144	153	297
Taunton State Hospital,	733	776	1,509	759	785	1,544	79	95	174
Northampton State Hospital,	604	615	1,219	618	617	1,235	68	49	117
Danvers State Hospital,	840	1,071	1,911	823	1,053	1,876	132	111	243
Westborough State Hospital,	636	907	1,543	639	902	1,541	116	100	216
Boston State Hospital,	953	1,261	2,214	925	1,200	2,125	188	207	395
Grafton State Hospital,	709	744	1,453	756	797	1,553	111	89	200
Medfield State Hospital,	652	979	1,631	646	975	1,621	138	118	256
Gardner State Colony,	526	369	895	531	355	886	72	64	136
Monson State Hospital,	557	556	1,113	575	557	1,132	87	67	154
Foxborough State Hospital,	266	283	549	288	292	580	62	55	117
Massachusetts School for the Feeble-minded at Waltham,	951	647	1,598	939	623	1,562	64	165	229
Wrentham State School,	501	721	1,222	508	716	1,224	41	108	149
Totals,	9,100	10,028	19,128	9,170	9,947	19,117	1,302	1,381	2,683

TABLE 10. — *Statistical Form for State Institutions, etc. — Concluded.*

INSTITUTIONS.	EXPENDED.							Grand Totals.
	CURRENT EXPENSES.							
	Salaries and Wages.	Clothing.	Subsistence.	Ordinary Repairs.	Office, Domestic and Outdoor Expenses.	Totals.	New Buildings, Permanent Improvements, Land, etc.	
Worcester State Hospital,	\$217,236 21	\$24,233 16	\$180,580 82	\$17,850 86	\$237,394 83	\$677,295 88	\$31,773 40	\$709,069 28
Taunton State Hospital,	146,320 53	24,188 35	115,978 01	14,984 95	170,065 59	471,537 43	11,778 33	483,315 76
N'orthampton State Hospital,	110,224 75	11,810 65	82,261 40	14,821 45	131,395 76	350,514 01	2,379 56	352,893 57
Danvers State Hospital,	198,378 36	20,940 39	130,791 04	21,528 58	217,002 60	588,640 97	17,567 13	606,208 10
Westborough State Hospital,	174,064 85	24,802 41	122,950 93	16,430 36	218,577 82	556,826 37	5,676 53	562,502 90
Boston State Hospital,	315,072 51	32,232 64	247,573 07	22,638 61	237,171 18	854,689 01	312,066 32	1,166,755 33
Grafton State Hospital,	152,689 71	34,576 02	133,657 84	18,276 42	198,844 47	538,044 46	7,964 10	546,008 56
Medfield State Hospital,	194,631 39	35,776 86	145,624 90	27,535 41	189,617 93	593,486 49	7,334 38	600,820 87
Gardner State Colony,	120,362 47	13,444 89	57,063 80	15,457 23	108,875 28	315,203 67	33,215 29	348,418 96
Monson State Hospital,	134,814 16	12,578 85	77,397 93	15,066 32	139,113 35	378,970 61	—	378,970 61
Foxborough State Hospital,	100,943 89	9,726 17	41,277 87	8,169 89	107,971 62	268,089 44	79,097 28	347,186 72
Massachusetts School for the Feeble-minded at Waltham.	187,738 01	38,133 86	141,756 48	22,390 28	162,473 47	552,492 10	—	552,492 10
Wrentham State School,	124,347 35	33,213 37	114,801 69	17,370 38	155,031 76	444,764 55	3,237 34	448,001 89
Totals,	\$2,177,124 19	\$315,658 62	\$1,591,715 78	\$232,520 74	\$2,273,535 66	\$6,590,554 99	\$512,089 66	\$7,102,644 65

TABLE 11. — *Classes of Persons under Supervision, etc.* — Continued.

	IN INSTITUTION.				On Visit and Es- cape.	ON BOOKS.				
	NUMBER.		INCREASE FOR THE YEAR.			NUMBER.		INCREASE FOR THE YEAR.		
	Males.	Females.	Totals.			Males.	Females.	Totals.		
Feeble-minded: —										
School for the Feeble-minded at Waltham,	951	647	1,598	36	180	1,099	679	1,778	56 ¹	3 ¹
Wrentham School,	501	721	1,222	16 ¹	163	573	812	1,385	20 ¹	23
Hospital Cottages for Children,	54	31	85	6	5	56	32	88	8	3
Elm Hill Institution,	27	11	38	3 ¹	3 ¹	27	11	38	3 ¹	—
Smaller private institutions,	6	29	35	4 ¹	—	6	29	35	4 ¹	4 ¹
Almshouses and private families,	124	103	227 ²	11	—	124	103	227	11	8 ¹
Totals, feeble-minded,	1,663	1,542	3,205	36	346	1,855	1,666	3,551	64 ¹	13
Epileptics: —										
Monson Hospital,	460	500	960	14	—	—	—	—	—	—
Public institutions for insane,	197	179	376	21	—	—	—	—	—	—
School for the Feeble-minded at Waltham,	5	3	8	3 ¹	—	—	—	—	—	—
Hospital Cottages for Children,	37	23	60	2	—	—	—	—	—	—
Private institutions,	9	8	17	6	—	—	—	—	—	—
Totals, epileptics,	708	713	1,421	17	—	—	—	—	—	—
Whole number of persons under supervision,	—	—	—	—	—	—	—	—	—	—
Viz., insane, feeble-minded, epileptic and inebriate,	—	—	—	—	—	—	—	—	—	—
Voluntary mental patients (same),	—	—	—	—	—	—	—	—	—	—
Temporary care,	—	—	—	—	—	—	—	—	—	—
Other classes,	—	—	—	—	—	—	—	—	—	—

¹ Decrease.² Taken from reports of overseers of the poor, March, 1921.

TABLE 12. — Movement of Insane Patient Population in Institutions and boarded in Private Families for the Year ending Sept. 30, 1920.

	Worcester Hospital.	Taunton Hospital.	Northampton Hospital.	Danvers Hospital.	Westborough Hospital.	Boston Hospital.	Grafton Hospital.	Medfield Hospital.	Gardner Colony.	Monson Hospital.
1. Insane patients on books Sept. 30, 1919,	1,871	1,565	1,215	1,844	1,567	2,024	1,907	1,604	885	276
Men,	996	765	604	791	651	867	914	629	537	146
Women,	875	800	611	1,053	916	1,157	993	975	348	130
Admissions during year: —										
A. First admissions,	371	328	332	463	242	694	16	60	48	55
Men,	213	170	164	235	106	322	9	31	26	32
Women,	158	158	168	228	136	372	7	29	22	23
B. Readmissions,	119	74	94	137	99	212	14	32	8	1
Men,	63	37	48	80	35	118	9	24	1	1
Women,	56	37	46	77	64	94	5	8	7	—
Total admissions,	490	402	426	600	341	906	30	92	56	56
Men,	276	207	212	295	141	440	18	55	27	23
Women,	214	195	214	305	200	466	12	37	29	23
C. Transfers from other institutions,	439	6	2	14	15	10	50	95	31	6
Men,	196	—	—	6	5	3	27	48	7	5
Women,	243	6	2	8	10	7	23	47	24	1
D. Returns from escape of previous years,	—	3	1	—	—	—	—	—	—	—
Men,	—	3	1	—	—	—	—	—	—	—
Women,	—	—	—	—	—	—	—	—	—	—
2. Total received during year,	929	411	429	614	356	916	80	187	87	62
Men,	472	210	213	301	146	443	45	103	34	38
Women,	457	201	216	313	210	473	35	84	53	24
3. Total under treatment during year,	2,800	1,970	1,644	2,458	1,923	2,940	1,987	1,791	972	338
Men,	1,468	817	817	1,092	797	1,310	869	732	571	184
Women,	1,332	1,001	827	1,366	1,126	1,630	1,028	1,059	401	154
Discharged from books during year: —										
A. As recovered,	58	52	72	51	40	70	—	10	3	—
Men,	25	34	26	32	12	26	—	7	1	—
Women,	33	18	46	19	28	44	—	3	2	—

B. As improved, Men,	124	71	242	189	170	32	25	21	7
Women,	57	44	99	77	77	20	13	10	4
C. As unimproved, Men,	67	27	143	112	93	11	11	11	3
Women,	37	40	41	31	125	12	26	11	5
D. As not insane, Men,	16	15	18	16	67	5	16	9	4
Women,	21	25	23	15	58	7	10	2	1
E. Transferred to other institutions, Men,	5	4	10	3	113	1	—	1	—
Women,	3	3	10	2	62	—	—	1	—
F. Died during year, Men,	2	1	7	19	51	—	7	2	—
Women,	44	106	2	5	30	441	3	—	—
G. Change in classification, Men,	21	60	2	14	16	196	245	2	—
Women,	35	46	5	98	244	49	92	39	23
4. Total discharged from books during year, Men,	230	133	202	50	127	29	41	24	15
Women,	140	65	96	48	117	20	51	15	8
5. Insane patients remaining on books Sept. 30, 1920, Men,	99	68	106	—	1	—	—	—	—
Women,	—	—	—	—	—	—	—	—	—
6a. Average daily number of patients on books during year, Men,	473	426	553	380	753	534	160	77	35
Women,	243	213	257	161	373	250	80	45	23
6b. Average daily number of patients in institutions during year, Men,	230	213	296	219	380	284	80	22	12
Women,	1,503	1,218	1,905	1,543	2,187	1,453	1,631	895	303
7a. Average daily number of patients in family care during year, Men,	732	604	835	636	937	709	652	526	161
Women,	1,098	771	1,070	907	1,250	744	979	369	142
7b. Average daily number of patients on visit and escape during year, Men,	2,230.33	1,540.49	1,875.58	1,541.31	2,091.26	1,553.66	1,620.78	886.47	305.00
Women,	1,138.49	757.37	822.87	639.43	907.71	756.55	645.85	531.07	162.19
8. Number of insane voluntary patients admitted during year, Men,	1,071.84	618.76	1,052.71	901.88	1,183.55	797.11	974.93	355.40	142.81
Women,	1,906.59	1,007.90	1,521.72	1,276.48	1,753.31	1,477.63	1,546.54	810.67	288.64
Men,	975.86	511.63	664.70	534.50	776.31	711.34	613.20	500.94	132.59
Women,	936.73	496.27	857.02	741.98	977.00	766.29	933.34	309.73	136.05
Men,	28.91	15.56	23.79	25.96	9.28	10.41	11.99	47.56	—
Women, . . . . .	.08	2.04	—	—	—	1.00	1.43	10.80	—
7b. Average daily number of patients on visit and escape during year, Men,	28.83	21.91	23.79	25.96	9.28	—	—	36.76	—
Women,	294.83	205.35	230.07	238.87	328.67	65.62	10.56	28.24	16.36
Men,	182.55	103.20	158.17	104.93	131.40	44.21	31.22	19.33	9.60
Women,	112.28	105.15	171.90	133.94	197.27	21.41	31.03	8.91	6.76
Men,	16	17	31	33	206	4	2	5	—
Women,	6	5	13	13	199	1	2	8	—
Men,	2	12	18	20	77	3	—	2	—
Women,	4	—	—	—	—	—	—	—	—

TABLE 12. — Movement of Insane Patient Population in Institutions and boarded in Private Families for the Year ending Sept. 30, 1920
— Continued.

	Foxborough Hospital.	Mental Wards, State Infirmary.	Bridgewater Hospital.	Total, Public Institutions.	Family Care under Department.	Total Public.	McLean Hospital.	Smaller Private Institutions.	Total Private.	Aggregates.
1. Insane patients on books Sept. 30, 1919,										
Men,	515	722	834	16,829	38	16,867	216	160	376	17,243
Women,	242	201	834	8,177	—	8,177	94	37	131	8,308
Admissions during year: —										
A. First admissions,	273	521	—	8,652	38	8,690	122	123	245	8,935
Men,	77	30	52	2,768	—	2,768	51	190	241	3,009
Women,	55	21	52	1,436	—	1,436	21	55	76	1,512
B. Readmissions,	22	9	—	1,332	—	1,332	30	135	165	1,497
Men,	25	5	16	836	—	836	29	62	91	927
Women,	14	4	16	430	—	430	15	22	37	467
Total admissions,	11	1	—	406	—	406	14	40	54	460
Men,	102	35	68	3,604	—	3,604	80	252	332	3,936
Women,	69	25	68	1,866	—	1,866	36	77	113	1,979
C. Transfers from other institutions,	33	16	—	1,738	—	1,738	44	175	219	1,957
Men,	17	24	2	711	—	711	10	23	33	744
Women,	5	3	2	307	—	307	1	4	5	312
D. Returns from escape of previous years,	12	21	—	404	—	404	9	19	28	432
Men,	—	—	—	4	—	4	—	—	—	4
Women,	—	—	—	—	—	—	—	—	—	—
2. Total received during year,	119	59	70	4,319	—	4,319	90	275	365	4,684
Men,	74	28	70	2,177	—	2,177	37	81	118	2,295
Women,	45	31	—	2,142	—	2,142	53	194	247	2,389
3. Total under treatment during year,	634	781	904	21,143	38	21,186	306	435	741	21,927
Men,	316	229	904	10,354	—	10,354	131	118	249	10,603
Women,	318	552	—	10,794	38	10,832	175	317	492	11,324
Discharged from books during year: —										
A. As recovered,	5	—	9	370	—	370	26	37	63	433
Men,	2	—	9	174	—	174	12	8	20	194
Women,	3	—	—	196	—	196	14	29	43	239

B. As improved, Men,	26	7	13	1,075	-	1,075	36	107	143	1,218
Women,	11	2	13	528	-	528	16	34	50	578
C. As unimproved, Men,	15	5	-	547	-	547	20	57	93	640
Women,	21	16	11	426	-	426	10	72	82	508
D. As not insane, Men,	5	10	11	224	-	224	2	33	35	259
Women,	5	10	11	202	-	202	8	39	47	249
E. Transferred to other institutions, Men,	-	-	1	145	-	145	-	-	-	145
Women,	-	-	1	85	-	85	-	-	-	85
F. Died during year, Men,	1	7	-	60	3	703	9	20	29	60
Women,	1	6	-	306	3	308	1	2	3	735
G. Change in classification, Men,	37	41	30	397	3	400	8	18	26	309
Women,	23	22	30	1,429	1	1,430	16	29	45	426
Men,	14	19	-	774	1	774	12	11	23	1,475
Women,	-	-	-	655	1	656	4	18	22	797
Men,	-	-	-	1	-	1	-	-	-	678
Women,	-	-	-	1	-	1	-	-	-	1
4. Total discharged from books during year, Men,	90	71	64	4,149	4	4,153	97	265	362	4,515
Women,	52	31	64	2,091	4	2,091	43	88	131	2,222
5. Insane patients remaining on books Sept. 30, 1920, Men,	38	40	-	2,058	-	2,062	54	177	231	2,293
Women,	544	710	840	16,999	34	17,033	209	170	379	17,412
Men,	264	198	840	8,263	34	8,263	88	30	118	8,281
Women,	280	512	-	8,736	34	8,770	121	140	261	9,031
6a. Average daily number of patients on books during year, Men,	579.82	707.35	841.25	17,008.07	35.44	17,013.51	210.11	165.72	375.83	17,419.34
Women,	287.71	197.35	841.25	8,325.86	-	8,325.86	87.42	30.24	117.66	8,443.52
6b. Average daily number of patients in institutions during year, Men,	292.11	510.00	-	8,682.21	35.44	8,717.65	122.69	135.48	258.17	8,975.82
Women,	527.39	698.29	838.3	14,949.65	-	14,949.65	205.02	146.22	351.84	15,301.49
7a. Average daily number of patients in family care during year, Men,	263.57	195.29	828.3	7,378.36	-	7,378.36	83.89	27.24	111.13	7,489.49
Women,	263.82	503.00	-	7,571.29	-	7,571.29	121.73	118.98	240.71	7,812.00
Men,	-	-	-	199.41	35.44	234.85	-	-	-	234.85
Women,	-	-	-	19.39	-	19.39	-	-	-	19.39
7b. Average daily number of patients on visit and escape during year, Men,	52.43	9.06	12.95	180.02	35.44	215.46	14.49	19.50	23.99	215.46
Women,	24.15	2.06	12.95	98.11	-	1,859.01	3.53	3.00	6.53	1,883.00
8. Number of insane voluntary patients admitted during year, Men,	28.28	7.00	-	980.90	-	980.90	.96	16.50	17.46	948.36
Women,	3	-	-	324	-	324	53	-	-	-
Men,	3	-	-	177	-	177	27	-	-	-
Women,	1	-	-	147	-	147	26	-	-	-

TABLE 13. — *Nativity of First Admissions and of Parents of First Admissions at Public Institutions for the Insane and McLean Hospital.*

	PATIENTS.			PARENTS OF MALE PATIENTS.			PARENTS OF FEMALE PATIENTS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
United States,	841	775	1,616	459	442	901	427	423	850
Africa,	1	—	1	—	—	—	—	—	—
Asia,	5	—	5	4	4	8	—	—	—
Australia,	—	1	1	—	—	—	—	—	—
Austria,	15	8	23	20	18	38	13	11	24
Belgium,	2	1	3	2	2	4	2	2	4
Bohemia,	—	—	—	—	—	—	—	—	—
Born at sea,	—	—	—	—	—	—	—	—	—
Canada,	115	150	265	168	178	346	172	180	352
China,	2	1	3	2	2	4	1	2	3
Cuba,	—	—	—	—	—	—	—	1	1
Denmark,	2	1	3	3	3	6	1	2	3
England,	40	41	81	67	68	135	75	62	137
Finland,	10	8	18	10	10	20	8	6	14
France,	2	2	4	4	3	7	7	4	11
Germany,	15	16	31	32	26	58	28	27	55
Greece,	14	3	17	13	13	26	3	3	6
Hawaii,	—	—	—	—	—	—	—	—	—
Holland,	1	1	2	1	2	3	1	1	2
Hungary,	1	3	4	2	2	4	2	2	4
India,	1	—	1	1	1	2	—	—	—
Ireland,	96	165	261	248	249	497	313	320	633
Italy,	67	42	109	75	75	150	48	47	95
Japan,	2	—	2	3	2	5	—	—	—
Mexico,	—	—	—	—	—	—	—	—	—
Norway,	1	1	2	1	1	2	1	2	3
Philippine Island,	—	—	—	—	—	—	—	—	—
Poland,	33	22	55	36	40	76	23	24	47
Porto Rico,	1	—	1	1	1	2	—	—	—
Portugal,	14	5	19	18	15	33	9	8	17
Roumania,	2	—	2	1	1	2	—	—	—
Russia,	80	49	129	96	92	188	61	62	123

TABLE 13. — *Nativity of First Admissions and of Parents of First Admissions at Public Institutions for the Insane and McLean Hospital—Concluded.*

	PATIENTS.			PARENTS OF MALE PATIENTS.			PARENTS OF FEMALE PATIENTS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Scotland,	18	9	27	29	34	63	28	23	51
South America,	1	—	1	1	1	2	—	1	1
Spain,	—	—	—	—	—	—	—	1	1
Sweden,	29	23	52	31	32	63	31	32	63
Switzerland,	—	—	—	—	—	—	—	1	1
Syria,	3	—	3	2	2	4	—	—	—
Turkey in Asia,	13	2	15	15	16	31	2	2	4
Turkey in Europe,	7	6	13	7	7	14	5	6	11
Wales,	—	2	2	2	1	3	1	2	3
West Indies,	2	7	9	4	3	7	6	4	10
Other countries,	2	—	2	3	2	5	—	—	—
Total foreign born,	597	569	1,166	902	906	1,808	841	838	1,679
Unascertained,	19	18	37	96	109	205	94	101	195
Totals,	1,457	1,362	2,819	1,457	1,457	2,914	1,362	1,362	2,724

TABLE 14. — *Citizenship of First Admissions at Public Institutions for the Insane and McLean Hospital.*

	Males.	Females.	Totals.
Citizens by birth,	839	772	1,611
Citizens by naturalization,	172	162	334
Aliens,	357	283	640
Citizenship unascertained,	89	145	234
Totals,	1,457	1,362	2,819

TABLE 15. — *Psychoses of First Admissions at Public Institutions for the Insane and McLean Hospital.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic, . . . . .	.	.	.	4	1	5
2. Senile, total,	79	123	202	117	194	311
(a) Simple deterioration,	10	12	22			
(b) Presbyophrenic type,	2	9	11			
(c) Delirious and confused states,	5	13	18			
(d) Depressed and agitated states in addition to deterioration,	17	34	51			
(e) Paranoid states in addition to deterioration,	4	3	7			
(f) Presenile type, . . . . .	.	.	.	156	108	264
3. With cerebral arteriosclerosis, . . . . .	.	.	.	175	50	224
4. General paralysis, . . . . .	.	.	.	9	8	17
5. With cerebral syphilis, . . . . .	.	.	.	1	3	4
6. With Huntingdon's chorea, . . . . .	.	.	.	9	3	12
7. With brain tumor, . . . . .	.	.	.	20	9	29
8. With other brain or nervous diseases, total,	1	—	1			
Cerebral embolism,	4	1	5			
Paralysis agitans,	1	—	1			
Tubercular or other forms of meningitis,	—	—	—			
Multiple sclerosis,	3	3	6			
Tabes,	1	—	1			
Acute chorea,	10	5	15			
Other conditions, . . . . .	.	.	.	83	19	102
9. Alcoholic, total,	1	—	1			
(a) Pathological intoxication,	7	—	7			
(b) Delirium tremens,	26	6	32			
(c) Acute hallucinosis,	5	—	5			
(d) Acute paranoid type,	1	2	3			
(e) Korsakow's psychosis,	12	8	20			
(f) Chronic hallucinosis,	22	2	24			
(g) Chronic paranoid type,	8	1	9			
(h) Alcoholic deterioration,	1	—	1			
(i) Other types, acute or chronic, . . . . .	.	.	.	4	8	12
10. Due to drugs and other exogenous toxins, total,	3	7	10			
(a) Morphine, cocaine, bromides, chloral, etc., alone or combined,	1	—	1			
(b) Metals, as lead, arsenic, etc.,	—	—	—			
(c) Gases,	—	1	1			
(d) Other exogenous toxins, . . . . .	.	.	.	—	6	6
11. With pellagra, . . . . .	.	.	.	34	51	85
12. Psychoses with other somatic diseases, total,	6	12	18			
(a) Delirium with infectious diseases,	5	6	11			
(b) Post-infectious psychoses,	3	5	8			
(c) Exhaustion delirium,	1	4	5			
(d) Delirium of unknown origin,	2	3	5			
(e) Diseases of the ductless glands,	11	10	21			
(f) Cardioresenal disease,	—	2	2			
(g) Cancer,	6	9	15			
(h) Other diseases or conditions,	56	69	125	121	173	294
13. Manic-depressive, total,	59	88	147			
(a) Manic type,	1	1	2			
(b) Depressive type,	2	13	15			
(c) Stupor,	3	2	5			
(d) Mixed type, . . . . .	.	.	.	15	44	59
(e) Circular type, . . . . .	.	.	.	385	378	763
14. Involution melancholia, . . . . .	.	.	.
15. Dementia præcox, total,	153	162	315			
(a) Paranoid type,	88	106	194			
(b) Katatonic type,	112	89	201			
(c) Hebephrenic type,	31	18	49			
(d) Simple type,	1	3	4			
(e) Unclassified, . . . . .	.	.	.	17	35	52
16. Paranoia and paranoic conditions, . . . . .	.	.	.	15	28	43
17. Psychoneuroses, total,	2	9	11			
(a) Hysterical type,	6	10	16			
(b) Psychasthenic type,	7	7	14			
(c) Neurasthenic type,	—	2	2			
(d) Anxiety neuroses, . . . . .	.	.	.

TABLE 15. — *Psychoses of First Admissions at Public Institutions for the Insane and McLean Hospital — Concluded.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
18. With mental deficiency, . . . . .	.	.	.	40	49	89
19. With constitutional psychopathic inferiority, . . . . .	.	.	.	22	12	34
20. Epileptic, total, . . . . .	.	.	.	62	48	110
(a) Deterioration,	15	19	34			
(b) Clouded states,	15	7	22			
(c) Other conditions,	32	22	54			
21. Undiagnosed, . . . . .	.	.	.	70	70	140
22. Not insane, total, . . . . .	.	.	.	98	65	163
(a) Epilepsy without psychosis,	9	3	12			
(b) Alcoholism without psychosis,	2	—	2			
(c) Drug addiction without psychosis,	3	1	4			
(d) Constitutional psychopathic inferiority without psychosis,	21	17	38			
(e) Mental deficiency without psychosis,	33	22	55			
(f) Others,	30	22	52			
Totals, . . . . .	.	.	.	1,457	1,360	2,819

TABLE 16. — *Race of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

[illegible]

[illegible]

[illegible]

[illegible]

TABLE 17. — Age of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.

	TOTALS.			YEARS.																	
	Males.	Females.	Totals.	UNDER 15.			15-20.			20-25.			25-30.			30-35.			35-40.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.			
1. Traumatic,	4	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2. Senile,	117	194	311	-	-	-	1	1	2	1	4	5	5	9	14	2	8	10	8	3	11
3. With cerebral arteriosclerosis,	156	108	264	-	-	-	7	11	18	16	13	29	14	15	29	8	26	34	14	27	41
4. General paralysis,	175	50	225	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5. With cerebral syphilis,	9	8	17	1	1	2	-	-	-	1	1	2	1	2	3	13	8	21	39	4	43
6. With Huntingdon's chorea,	1	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7. With brain tumor,	9	3	12	1	-	1	-	-	-	1	-	1	7	2	9	2	3	11	16	1	17
8. With other brain or nervous diseases,	20	9	29	1	-	1	-	-	-	-	-	-	-	-	-	8	3	11	16	1	17
9. Alcoholic,	83	19	102	1	-	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
10. Due to drugs and other exogenous toxins,	4	8	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11. With pellagra,	-	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12. With other somatic diseases,	34	51	85	-	-	-	1	1	2	1	4	5	5	9	14	2	8	10	8	3	11
13. Manic-depressive,	121	173	294	-	-	-	7	11	18	16	13	29	14	15	29	8	26	34	14	27	41
14. Involution melancholia,	15	44	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15. Dementia praecox,	385	378	763	1	-	1	35	25	60	70	47	117	95	58	153	70	64	134	50	45	95
16. Paranoia and paranoid conditions,	17	35	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17. Epileptic psychoses,	62	48	110	16	9	25	12	6	18	7	7	14	5	6	11	6	5	11	1	4	5
18. Psychoneuroses and neuroses,	15	28	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19. With constitutional psychopathic inferiority,	22	12	34	-	-	-	6	1	7	3	3	6	3	1	4	3	3	6	3	2	5
20. With mental deficiency,	40	49	89	1	1	2	8	3	11	5	4	9	6	6	12	7	8	15	1	9	10
21. Undiagnosed,	70	70	140	-	-	-	1	2	3	2	3	5	2	9	11	5	7	12	7	5	12
22. Not insane,	98	65	163	-	1	1	16	12	28	20	7	27	16	12	28	10	9	19	9	9	18
Totals,	1,457	1,362	2,819	22	12	34	86	64	150	131	92	223	171	117	288	140	149	289	151	123	274

TABLE 19. — *Environment of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTALS.			URBAN.			RURALS.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	4	1	5	2	1	3	2	—	2	—	—	—
2. Senile,	117	194	311	86	164	250	31	30	61	—	—	—
3. With cerebral arteriosclerosis,	156	108	264	133	99	232	23	9	32	—	—	—
4. General paralysis,	175	50	225	161	45	206	14	5	19	—	—	—
5. With cerebral syphilis,	9	8	17	9	7	16	—	—	1	—	—	—
6. With Huntington's chorea,	1	3	4	1	3	4	—	—	—	—	—	—
7. With brain tumor,	9	3	12	9	2	11	—	—	1	—	—	—
8. With other brain or nervous diseases,	20	9	29	18	7	25	2	2	4	—	—	—
9. Alcoholic,	83	19	102	70	19	89	13	—	13	—	—	—
10. Due to drugs and other exogenous toxins,	4	8	12	4	8	12	—	—	—	—	—	—
11. With pellagra,	—	6	6	—	5	5	—	—	1	—	—	—
12. With other somatic diseases,	34	51	85	28	43	71	6	8	14	—	—	—
13. Manic-depressive,	121	173	294	94	152	246	27	21	48	—	—	—
14. Involution melancholia,	15	44	59	13	37	50	2	7	9	—	—	—
15. Dementia precox,	385	378	763	329	320	649	56	58	114	—	—	—
16. Paranoia and paranoic conditions,	17	35	52	15	32	47	2	3	5	—	—	—
17. Epileptic psychoses,	62	48	110	54	45	99	8	3	11	—	—	—
18. Psychoneuroses and neuroses,	15	28	43	13	25	38	2	3	5	—	—	—
19. With constitutional psychopathic inferiority,	22	12	34	20	10	30	2	2	4	—	—	—
20. With mental deficiency,	40	49	89	33	42	75	7	7	14	—	—	—
21. Undiagnosed,	70	70	140	65	57	122	3	13	16	—	—	—
22. Not insane,	98	65	163	87	59	146	11	6	17	—	—	—
Totals,	1,457	1,362	2,819	1,244	1,182	2,426	211	180	391	2	—	2

TABLE 20. — *Economic Condition of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTALS.			DEPENDENT.			MARGINAL.			COMFORTABLE.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	4	1	5	1	—	1	1	—	1	2	1	3	—	—	—
2. Senile,	117	194	311	36	50	86	56	99	155	25	44	69	—	1	—
3. With cerebral arteriosclerosis,	156	108	264	20	18	38	62	47	109	70	42	112	4	1	5
4. General paralysis,	175	50	225	10	6	16	111	38	149	53	6	59	1	—	—
5. With cerebral syphilis,	9	8	17	3	2	5	3	5	8	3	1	4	—	—	—
6. With Huntingdon's chorea,	1	3	4	—	—	—	1	3	4	—	—	—	—	—	—
7. With brain tumor,	9	3	12	—	—	—	6	3	9	2	—	2	—	—	—
8. With other brain or nervous diseases,	20	9	29	3	1	4	10	6	16	7	2	9	—	—	—
9. Alcoholic,	83	19	102	7	3	10	58	13	71	17	2	19	1	1	2
10. Due to drugs and other exogenous toxins,	—	4	4	1	1	2	3	5	8	—	2	2	—	—	—
11. With pellagra,	—	6	6	—	—	—	—	6	6	—	—	—	—	—	—
12. With other somatic diseases,	34	51	85	1	5	6	24	26	50	9	9	18	—	—	—
13. Manic-depressive,	121	173	294	3	9	12	79	111	190	37	51	88	2	2	4
14. Involution melancholia,	15	44	59	1	—	1	6	25	31	8	18	26	—	—	—
15. Dementia precox,	385	378	763	41	40	81	248	254	502	86	80	166	10	4	14
16. Paranoia and paranoid conditions,	17	35	52	1	3	4	12	26	38	4	5	9	—	1	—
17. Epileptic psychoses,	62	48	110	16	18	34	37	21	58	9	8	17	—	1	—
18. Psychoneuroses and neuroses,	15	28	43	—	2	2	11	15	26	4	11	15	—	—	—
19. With constitutional psychopathic inferiority,	22	34	56	5	4	9	11	5	16	6	3	9	—	—	—
20. With mental deficiency,	40	49	89	13	23	36	19	21	40	7	5	12	1	—	—
21. Undiagnosed,	70	70	140	4	5	9	51	51	102	12	14	26	3	—	3
22. Not insane,	98	65	163	13	10	23	70	43	113	15	11	26	—	1	—
Totals,	1,457	1,362	2,819	179	200	379	879	833	1,712	376	315	691	23	14	37

TABLE 21. — *Use of Alcohol by First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTALS.			ABSTINENT.			TEMPERATE.			INTEMPERATE.			UNASCERTAINED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	4	1	5	1	1	2	1	1	1	2	1	2	1	1	1
2. Senile,	117	194	311	44	148	192	44	18	62	17	7	24	12	21	33
3. With cerebral arteriosclerosis,	156	108	264	45	90	135	74	7	81	18	1	19	19	10	29
4. General paralysis,	175	50	225	25	31	56	85	9	94	39	6	45	16	4	20
5. With cerebral syphilis,	9	8	17	3	5	8	3	2	5	1	1	2	2	—	2
6. With Huntingdon's chorea,	1	3	4	—	3	3	—	—	—	—	—	—	—	—	—
7. With brain tumor,	9	3	12	3	3	6	6	—	6	—	—	—	—	—	—
8. With other brain or nervous diseases,	20	9	29	10	7	17	8	—	8	2	1	3	—	1	1
9. Alcoholic,	83	19	102	—	—	—	3	—	3	66	19	85	14	—	14
10. Due to drugs and other exogenous toxins,	4	8	12	1	5	6	—	2	2	3	1	4	—	1	1
11. With pellagra,	—	6	6	—	5	5	—	—	—	—	—	—	—	—	—
12. With other somatic diseases,	34	51	85	7	40	47	19	7	26	5	2	7	3	2	5
13. Manic-depressive,	121	173	294	56	148	204	47	19	66	12	—	12	6	6	12
14. Involution melancholia,	15	44	59	6	42	48	5	—	6	3	—	3	1	—	2
15. Dementia praecox,	385	378	763	152	322	474	157	31	188	43	3	46	33	22	55
16. Paranoia and paranoic conditions,	17	35	52	3	28	31	10	5	15	3	—	3	1	2	3
17. Epileptic psychoses,	62	48	110	46	45	91	9	1	10	5	—	5	2	2	4
18. Psychoneuroses and neuroses,	15	28	43	5	27	32	8	1	9	1	—	1	1	—	1
19. With constitutional psychopathic inferiority,	22	12	34	11	8	19	8	2	10	2	1	3	3	1	2
20. With mental deficiency,	40	49	89	24	36	60	10	6	16	3	5	8	3	2	5
21. Undiagnosed,	70	70	140	21	57	78	28	7	35	14	—	14	7	6	13
22. Not insane,	98	65	163	56	56	112	33	4	37	8	4	12	1	1	2
Totals,	1,457	1,302	2,819	529	1,107	1,636	558	122	680	247	51	298	123	82	205

TABLE 22. — *Marital Condition of First Admissions, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

	TOTALS.			SINGLE.			MARRIED.			WIDOWED.			SEPARATED.			DIVORCED.			UNASCRIBED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	4	1	5	1	1	2	3	1	4	1	1	2	1	1	2	1	1	2	1	1	2
2. Senile,	117	194	311	13	38	51	51	32	83	49	121	170	1	1	2	2	3	5	1	1	2
3. With cerebral arteriosclerosis,	156	108	264	21	22	43	81	29	110	51	54	105	1	1	2	2	1	3	1	1	2
4. General paralysis,	175	50	225	44	4	48	118	28	146	8	12	20	1	3	4	5	3	8	1	1	2
5. With cerebral syphilis,	9	8	17	4	3	7	5	4	9	1	2	3	1	1	2	1	1	2	1	1	2
6. With Huntington's chorea,	1	3	4	2	2	4	6	2	8	1	1	2	1	1	2	1	1	2	1	1	2
7. With brain tumor,	9	3	12	2	1	3	4	2	6	1	1	2	1	1	2	1	1	2	1	1	2
8. With other brain or nervous diseases,	20	9	29	4	4	8	14	3	17	2	2	4	1	1	2	1	1	2	1	1	2
9. Alcoholic,	83	19	102	31	4	35	44	7	51	5	8	13	2	2	4	1	1	2	1	1	2
10. Due to drugs and other exogenous toxins,	4	8	12	1	1	2	1	3	4	1	1	2	1	1	2	1	1	2	1	1	2
11. With pellagra,	34	51	85	12	10	22	20	33	53	1	8	9	1	1	2	1	1	2	1	1	2
12. With other somatic diseases,	121	173	294	46	64	110	62	94	156	11	9	20	1	1	2	1	1	2	1	1	2
13. Manic-depressive,	15	44	59	3	13	16	8	24	32	2	7	9	1	2	3	2	3	5	1	1	2
14. Involution melancholia,	385	378	763	275	177	452	98	160	258	4	33	37	2	2	4	5	6	11	1	1	2
15. Dementia precox,	17	35	52	6	9	15	9	15	24	1	9	10	1	1	2	1	1	2	1	1	2
16. Paranoia and paranoid conditions,	62	48	110	48	30	78	13	14	27	1	2	3	1	1	2	1	1	2	1	1	2
17. Epileptic psychoses,	15	28	43	8	12	20	7	13	20	1	2	3	1	1	2	1	1	2	1	1	2
18. Psychoneuroses and neuroses,	22	12	34	16	8	24	4	4	8	2	2	4	1	1	2	1	1	2	1	1	2
19. Constitutional psychopathic inferiority,	40	49	89	37	26	63	3	18	21	1	3	4	1	1	2	1	1	2	1	1	2
20. With mental deficiency,	70	70	140	28	23	51	35	35	70	5	12	17	1	1	2	1	1	2	1	1	2
21. Undiagnosed,	65	163	228	59	27	86	34	32	66	4	5	9	1	1	2	1	1	2	1	1	2
22. Not insane,	98	65	163	59	27	86	34	32	66	4	5	9	1	1	2	1	1	2	1	1	2
Totals,	1,457	1,362	2,819	659	473	1,132	618	556	1,174	147	296	443	8	10	18	22	25	47	3	2	5

TABLE 23.—*Psychoses of Readmissions at Public Institutions for the Insane and McLean Hospital.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	—	—	—	—	—	—
2. Senile, total,	7	17	24			
(a) Simple deterioration,	4	12	16			
(b) Presbyophrenic type,	—	—	—			
(c) Delirious and confused states,	—	—	—			
(d) Depressed and agitated states in addition to deterioration,	—	2	2			
(e) Paranoid states in addition to deterioration,	3	2	5			
(f) Presenile type,	—	1	1			
3. With cerebral arteriosclerosis,	12	9	21			
4. General paralysis,	32	4	36			
5. With cerebral syphilis,	3	1	4			
6. With Huntingdon's chorea,	1	—	1			
7. With brain tumor,	—	—	—			
8. With other brain or nervous diseases, total,	4	1	5			
Cerebral embolism,	1	1	2			
Paralysis agitans,	—	—	—			
Tubercular or other forms of meningitis,	—	—	—			
Multiple sclerosis,	—	—	—			
Tabes,	—	—	—			
Acute chorea,	—	—	—			
Other conditions,	3	—	3			
9. Alcoholic, total,	28	4	32			
(a) Pathological intoxication,	2	1	3			
(b) Delirium tremens,	1	—	1			
(c) Acute hallucinosis,	6	—	6			
(d) Acute paranoid type,	1	—	1			
(e) Korsakow's psychosis,	—	—	—			
(f) Chronic hallucinosis,	6	1	7			
(g) Chronic paranoid type,	7	1	8			
(h) Alcoholic deterioration,	5	1	6			
(i) Other types, acute or chronic,	—	—	—			
10. Due to drugs and other exogenous toxins, total,	—	1	1			
(a) Morphine, cocaine, bromides, chloral, etc., alone or combined,	—	1	1			
(b) Metals, as lead, arsenic, etc.,	—	—	—			
(c) Gases,	—	—	—			
(d) Other exogenous toxins,	—	—	—			
11. With pellagra,	—	—	—			
12. With other somatic diseases, total,	1	2	3			
(a) Delirium with infectious diseases,	—	1	1			
(b) Post-infectious psychoses,	—	—	—			
(c) Exhaustion delirium,	—	1	1			
(d) Delirium of unknown origin,	—	—	—			
(e) Diseases of the ductless glands,	—	—	—			
(f) Cardioresenal disease,	1	—	1			
(g) Cancer,	—	—	—			
(h) Other diseases or conditions,	—	—	—			
13. Manic-depressive, total,	88	130	218			
(a) Manic type,	54	50	104			
(b) Depressive type,	30	70	100			
(c) Stupor,	—	3	3			
(d) Mixed type,	3	4	7			
(e) Circular type,	1	3	4			
14. Involution melancholia,	7	14	21			
15. Dementia præcox,	170	165	335			
(a) Paranoid type,	79	72	151			
(b) Katatonic type,	31	51	82			
(c) Hebephrenic type,	52	37	89			
(d) Simple type,	8	5	13			
(e) Unclassified,	—	—	—			
16. Paranoia and paranoic conditions,	8	4	12			

TABLE 23.—*Psychoses of Readmission at Public Institutions for the Insane and McLean Hospital—Concluded.*

PSYCHOSES.	SUBHEADINGS.			MAIN PSYCHOSES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
17. Psychoneuroses, total, . . . . .	.	.	.	1	12	13
(a) Hysterical type,	1	5	6			
(b) Psychasthenic type,	—	4	4			
(c) Neurasthenic type,	—	3	3			
(d) Anxiety neuroses,	—	—	—			
18. With mental deficiency, . . . . .	.	.	.	16	13	29
19. With constitutional psychopathic inferiority, . . . . .	.	.	.	15	7	22
20. Epileptic, total, . . . . .	.	.	.	7	8	15
(a) Deterioration,	4	5	9			
(b) Clouded states,	2	2	4			
(c) Other conditions,	1	1	2			
21. Undiagnosed, . . . . .	.	.	.	22	15	37
22. Not insane, total, . . . . .	.	.	.	23	13	36
(a) Epilepsy without psychosis,	1	—	1			
(b) Alcoholism without psychosis,	—	—	—			
(c) Drug addiction without psychosis,	—	—	—			
(d) Constitutional psychopathic inferiority without psychosis,	2	5	7			
(e) Mental deficiency without psychosis,	2	2	4			
(f) Others,	18	6	24			
Totals, . . . . .	.	.	.	445	420	865

TABLE 2A. — *Discharges of Patients, classified with Reference to Principal Psychoses and Condition on Discharge, at Public Institutions for the Insane and McLean Hospital.*

	TOTALS.			RECOVERED.			IMPROVED.			UNIMPROVED.			NOT INSANE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1. Traumatic,	10	2	12	1	1	2	7	1	8	2	—	2	—	—	—
2. Senile,	13	29	42	—	—	—	6	14	20	—	—	—	—	—	—
3. With cerebral arteriosclerosis,	27	25	52	—	—	—	16	16	32	—	—	—	—	—	—
4. General paralysis,	47	10	57	—	—	—	22	3	25	—	—	—	—	—	—
5. With cerebral syphilis,	9	5	14	—	—	—	7	2	9	—	—	—	—	—	—
6. With Huntington's chorea,	1	2	3	—	—	—	—	—	—	—	—	—	—	—	—
7. With brain tumor,	3	—	3	—	—	—	1	2	3	—	—	—	—	—	—
8. With other brain or nervous diseases,	7	4	11	—	—	—	5	1	6	—	—	—	—	—	—
9. Alcoholic,	161	39	200	68	16	84	83	13	101	10	5	15	—	—	—
10. Due to drugs and other exogenous toxins,	4	2	6	3	3	6	—	—	—	—	—	—	—	—	—
11. With pellagra,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12. With other somatic diseases,	26	54	80	19	31	50	6	19	25	1	4	5	—	—	—
13. Manic depressive,	161	263	426	75	117	192	74	23	201	12	21	33	—	—	—
14. Involution melancholia,	12	38	50	—	11	12	8	23	31	3	4	7	—	—	—
15. Dementia precox,	310	327	637	7	14	21	204	228	432	99	85	184	—	—	—
16. Paranoia and paranoid conditions,	13	23	36	—	—	—	9	15	24	3	8	11	—	—	—
17. Epileptic psychoses,	26	18	44	—	—	—	19	11	30	6	7	13	—	—	—
18. Psychoneuroses and neuroses,	20	42	62	—	6	6	11	26	37	1	6	7	—	—	—
19. With constitutional psychopathic inferiority,	24	8	32	2	2	4	18	4	22	4	4	8	—	—	—
20. With mental deficiency,	32	35	67	2	—	—	17	26	43	13	9	22	—	—	—
21. Undiagnosed,	43	46	89	5	8	13	22	9	41	14	19	33	2	—	2
22. Without psychosis,	92	69	161	2	2	4	9	9	18	10	2	12	71	56	127
Totals,	1,041	1,047	2,088	186	210	396	544	567	1,111	226	210	436	85	60	145

TABLE 25. — *Causes of Death of Patients, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.*

CAUSE OF DEATH.	TOTALS.			PSYCHOSES.											
	Males.	Females.	Totals.	SENILE.			WITH CEREBRAL ARTERIO-SCLEROSIS.			GENERAL PARALYSIS.			ALCOHOLIC.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
<i>General Diseases.</i>															
Adiposis dolorosa (Dercum's disease),	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Anamia, pernicious,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Appendicitis, acute,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Arthritis deformans,	6	3	9	6	3	9	1	1	2	1	1	2	1	1	2
Cancer,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of bladder,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of cecum,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of colon,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of duodenum,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of face,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of intestines,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of liver,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of liver and rectum,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of prostate gland,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of stomach,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Of uterus,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Carcinomatosis (left breast),	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Diabetes,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Diphtheria,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Epilepsia of face,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Erysipelas,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Facial,	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2

[illegible]

1 Taken before admission.

TABLE 25. — *Causes of Death of Patients, classified with Reference to Principal Psychoses, etc. — Continued.*

CAUSE OF DEATH.	PSYCHOSES — <i>Con.</i>											
	INVOLUTION MELANCHOLIA.			DEMENTIA PRÆCOX.			PARANOIA AND PARANOIC CONDITIONS.			WITH MENTAL DEFICIENCY.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
<i>General Diseases.</i>												
Adiposis dolorosa (Dercum's disease),	1	1	2	1	1	2	1	1	2	1	1	2
Anæmia, pernicious,	1	1	2	1	1	2	1	1	2	1	1	2
Appendicitis, acute,	1	1	2	1	1	2	1	1	2	1	1	2
Arthritis deformans,	1	1	2	1	1	2	1	1	2	1	1	2
Cancer,	1	1	2	1	1	2	1	1	2	1	1	2
Of bladder,	1	1	2	1	1	2	1	1	2	1	1	2
Of cereum,	1	1	2	1	1	2	1	1	2	1	1	2
Of colon,	1	1	2	1	1	2	1	1	2	1	1	2
Of duodenum,	1	1	2	1	1	2	1	1	2	1	1	2
Of face,	1	1	2	1	1	2	1	1	2	1	1	2
Of intestines,	1	1	2	1	1	2	1	1	2	1	1	2
Of liver,	1	1	2	1	1	2	1	1	2	1	1	2
Of liver and rectum,	1	1	2	1	1	2	1	1	2	1	1	2
Of prostate gland,	1	1	2	1	1	2	1	1	2	1	1	2
Of stomach,	1	1	2	1	1	2	1	1	2	1	1	2
Of uterus,	1	1	2	1	1	2	1	1	2	1	1	2
Carcinomatosis (left breast),	1	1	2	1	1	2	1	1	2	1	1	2
Diabetes,	1	1	2	1	1	2	1	1	2	1	1	2
Diphtheria,	1	1	2	1	1	2	1	1	2	1	1	2
Epithelioma of face,	1	1	2	1	1	2	1	1	2	1	1	2
Erysipelas,	1	1	2	1	1	2	1	1	2	1	1	2
Facial,	1	1	2	1	1	2	1	1	2	1	1	2

[illegible]

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	Totals.	
<i>Violence.</i>																						
Asphyxia,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Drowning,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Fracture of femur (accidental fall),	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Fracture of nasal bone (laceration forehead),	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Fracture of ribs, contusion and infection of right arm,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Hanging,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Heart exhaustion, with myocardial insufficiency,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Hemorrhage of lungs (gunshot wounds),	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Homicide,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Laryngeal obstruction by bolus of food,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Strangulation,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Struck by train,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Sudden death due to natural causes,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Suicide,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Suicide by arsenical poisoning, 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
<i>Diseases of Bones and Joints.</i>																						
Tuberculosis of hip joint,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Psoas abscess, probably tuberculous,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
Totals,	9	18	27	138	153	291	3	11	14	14	14	15	29	4	1	5	34	18	52	72	60	132

1 Taken before admission.

TABLE 26. — Age of Patients at Time of Death, classified with Reference to Principal Psychoses, at Public Institutions for the Insane and McLean Hospital.

	TOTALS.			YEARS.																	
	Males.	Females.	Totals.	UNDER 15.		15-20.		20-25.		25-30.		30-35.		35-40.							
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.						
1. Traumatic,	3	1	4	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	—	—	—
2. Senile,	109	176	285	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. With cerebral arteriosclerosis,	145	95	240	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4. General paralysis,	180	51	231	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. With cerebral syphilis,	6	6	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. With Huntington's chorea,	3	4	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. With brain tumor,	4	1	5	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8. With other brain or nervous diseases,	15	5	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9. Alcoholic,	40	9	49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. Due to drugs and other exogenous toxins,	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. With pellagra,	1	4	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12. With other somatic diseases,	17	25	42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13. Manic depressive,	38	52	90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14. Involution melancholia,	9	18	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15. Dementia praecox,	138	153	291	—	—	—	2	3	5	6	8	14	19	12	31	16	21	37	15	16	31
16. Paranoia and paranoid conditions,	3	11	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17. Epileptic psychoses,	34	18	52	2	1	3	1	2	3	3	1	4	1	1	2	4	2	6	2	—	2
18. Psychoneuroses and neuroses,	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19. With constitutional psychopathic inferiority,	4	1	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20. With mental deficiency,	14	15	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21. Undiagnosed,	15	10	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22. Not insane,	6	2	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals,	786	659	1,445	3	1	4	5	6	11	11	15	26	29	19	48	41	42	83	54	34	88

TABLE 27. — *Total Duration of Hospital Life of Patients dying in Public Institutions for the Insane and McLean Hospital.*

	TOTALS.			MONTHS.											
	Males.	Females.	Totals.	LESS THAN 1.			1-3.			4-7.			8-12.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.			
1. Traumatic,	3	1	4	2	—	2	1	—	1	—	—	—	—	—	1
2. Senile,	109	176	285	21	27	48	25	34	59	17	19	36	8	17	25
3. With cerebral arteriosclerosis,	145	95	240	38	14	52	42	22	64	14	10	24	11	14	25
4. General paralysis,	180	51	231	17	1	18	27	12	39	23	7	30	25	3	28
5. With cerebral syphilis,	6	6	12	1	1	2	1	2	3	—	—	—	—	2	2
6. With Huntingdon's chorea,	3	4	7	1	—	1	3	1	3	—	—	—	—	—	—
7. With brain tumor,	4	1	5	1	1	2	3	1	4	—	—	—	—	—	—
8. With other brain or nervous diseases,	15	5	20	5	2	7	3	1	4	2	—	2	2	—	2
9. Alcoholic,	40	9	49	—	—	—	1	—	1	—	—	—	—	—	—
10. Due to drugs and other exogenous toxins,	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—
11. With pellagra,	17	25	42	11	15	26	3	4	7	—	1	1	1	1	1
12. With other somatic diseases,	38	52	90	5	7	12	2	4	6	3	5	8	1	6	7
13. Manic-depressive,	9	18	27	—	—	—	—	2	2	2	3	5	—	—	—
14. Involution melancholia,	138	153	291	8	3	13	2	9	11	6	11	17	4	7	11
15. Dementia præcox,	3	11	14	—	—	—	—	—	—	—	—	—	—	—	—
16. Paranoia and paranoic conditions,	34	18	52	2	1	3	4	—	4	2	2	4	1	1	2
17. Epileptic psychoses,	1	1	2	—	—	—	—	—	—	—	1	2	—	—	—
18. Psychoneuroses and neuroses,	4	1	5	—	1	1	1	—	1	—	1	2	—	—	—
19. With constitutional psychopathic inferiority,	14	15	29	—	2	2	—	1	1	—	2	3	1	—	1
20. With mental deficiency,	15	10	25	9	6	15	—	—	—	3	—	—	—	2	2
21. Undiagnosed,	6	2	8	—	—	—	1	—	1	—	—	—	—	—	—
22. Without psychosis,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals,	786	659	1,445	123	88	211	116	92	208	73	62	135	54	54	108

DIRECTORY OF INSTITUTIONS.

PUBLIC.

WORCESTER STATE HOSPITAL (opened 1833): —

Trustees: Edward F. Fletcher, Worcester, chairman; Miss Caroline M. Caswell, Boston, clerk; Mrs. Forrest W. Bemis, Worcester; Dr. William J. Delehanty, Worcester; Luther C. Greenleaf, Boston; John G. Perman, D.D.S., Worcester; John E. White, Worcester.

Regular meeting, second Tuesday of each month.

Acting superintendent, B. Henry Mason, M.D.

Assistant physicians, Donald R. Gilfillan, M.D.; Arthur H. Mountford, M.D.; Robert B. Harriman, M.D.; William J. Vivian, M.D.; Roy C. Jackson, M.D.; Michael J. O'Meara, M.D.

Pathologist, Ada F. Harris, M.D.

Steward, Herbert W. Smith.

Treasurer, Jessie M. D. Hamilton.

Visiting days, daily, 10 A.M. to 12 M., and 1 to 4 P.M.

Staff meetings, daily, 8.30 A.M.

Location, Belmont Street, Worcester, one and one-half miles from Union Station (Boston & Albany, New York, New Haven & Hartford and Boston & Maine).

The Summer Street Department is located in the building formerly known as the Worcester State Asylum, on Summer Street, Worcester, about five minutes' walk from the Union Station (Boston & Albany, Boston & Maine and New York, New Haven & Hartford railroads). Correspondence relating to patients should be addressed to the superintendent, Worcester State Hospital, Worcester, Mass. Correspondence intended for the steward or treasurer of the hospital should be addressed to the Worcester State Hospital, Worcester, Mass.

TAUNTON STATE HOSPITAL (opened 1854): —

Trustees: Arthur B. Reed, North Abington, chairman; Mrs. Elizabeth C. M. Gifford, Cambridge, secretary; Simeon Borden, Fall River; Charles C. Cain, Jr., Taunton; Julius Berkowitz, New Bedford; Mrs. Margaret C. Smith, Taunton; Philip E. Brady, Attleboro.

TAUNTON STATE HOSPITAL (opened 1854) — *Concluded.*

Regular meeting, second Thursday of each month.

Superintendent, Arthur V. Goss, M.D.

Assistant superintendent, Horace G. Ripley, M.D.

Senior assistant physician, John J. Thompson, M.D.

Senior assistant physician and pathologist, Fannie C. Haines, M.D.

Assistant physician, Alma E. Fowler, M.D.

Treasurer, Frank W. Boynton.

Steward, Stephen F. Tracy.

Visiting days, every day.

Staff meetings, Monday, Tuesday, Thursday, Friday and Saturday at 8.15 A.M.

Location, Hodges Avenue, Taunton, one mile from railroad station (New York, New Haven & Hartford).

NORTHAMPTON STATE HOSPITAL (opened 1858): —

Trustees: Luke Corcoran, M.D., Springfield, chairman; Joseph W. Stevens, Greenfield, secretary; Miss Caroline A. Yale, Northampton; Mrs. Emily N. Newton, Holyoke; Harry L. Howard, Hatfield; Edward C. Gere, Northampton; Charles W. King, Chicopee Falls.

Regular meeting, first Thursday of each month.

Superintendent, John A. Houston, M.D.

Assistant physicians, Edward W. Whitney, M.D.; Angela Bober, M.D.; Arthur Nelson Ball, M.D.; Harriet W. Whitney, M.D.

Treasurer, Eva L. Graves.

Steward, Frank W. Smith.

Visiting days, for relatives or friends, every day except Sunday; for the general public, every day except Sunday.

Staff meetings, daily, except Sundays, at 8.15 A.M.

Location, Prince Street ("Hospital Hill"), Northampton, one and one-half miles from the railroad station, reached by carriage (Massachusetts Central and Connecticut River branches of Boston & Maine; and New Haven and Holyoke, Northampton, branches of the New York, New Haven & Hartford).

DANVERS STATE HOSPITAL (opened 1878):—

Post office and railroad station, Hathorne (Boston & Maine).

Trustees: S. Herbert Wilkins, Salem, chairman; James F. Ingraham, Peabody, secretary; Miss Mary W. Nichols, Salem, recording secretary; Arthur C. Nason, M.D., Newburyport; Samuel Cole, Beverly; W. W. Laws, Beverly; Mrs. Louise M. Porter, Peabody.

Regular meeting, second Thursday of each month.

Superintendent, John B. Macdonald, M.D.

Assistant superintendent, Ransom A. Greene, M.D.

Assistant physicians, George K. Butterfield, M.D.; Harvey M. Watkins, M.D.; Otis F. Kelly, M.D.; Guy C. Randall, M.D.

Treasurer, Miss Gladys Leach.

Steward, Adam D. Smith.

Visiting days, every day.

Staff meeting, daily, at 8 A.M.

Location, Maple and Newbury streets, Danvers, one-quarter mile from railroad station.

WESTBOROUGH STATE HOSPITAL (opened 1886):—

Trustees: N. Emmons Paine, M.D., West Newton, chairman; Miss Flora L. Mason, Taunton, secretary; Mrs. Sewall C. Brackett, Boston; Mr. Thomas F. Dolan, Boston; Mr. Stanley McGarry, Grafton; Charles L. Nichols, M.D., Worcester; Mrs. Emilie Young O'Brien, Brookline.

Regular meeting, second Thursday of each month.

Superintendent, Walter E. Lang, M.D.

Assistant superintendent, Ralph M. Chambers.

Senior assistant physician, M. J. Shealey, M.D.

Assistant physicians, Emma H. Fay, M.D.; Neil A. Day-ton, M.D.; Belle J. Allen, M.D.

Pathologist, —.

Steward, P. I. Wiley.

Treasurer, Carrie P. G. Nelson.

BOSTON STATE HOSPITAL (opened 1839):—

Trustees: Henry Lefavour, Boston, chairman; Mrs. Katherine G. Devine, South Boston, secretary; John A. Kiggen, Boston; William F. Whittemore, Boston; Hyman B. Swig, Lynn; Charles B. Frothingham, M.D., Lynn; Mrs. Edna W. Dreyfus, Brookline.

Regular meeting, third Monday of each month.

BOSTON STATE HOSPITAL (opened 1839) — *Continued.*

Superintendent, James V. May, M.D.

Assistant superintendent, Ermy C. Noble, M.D.

Senior assistant physicians, Mary E. Gill Noble, M.D.; Edmund M. Pease, M.D.; Roderick B. Dexter, M.D.; Florence H. Abbot, M.D.; Geneva Tryon, M.D.; John C. Lindsay, M.D.

Assistant physicians, William T. Merrill, M.D.; Charles J. Bolton, M.D.; Leo T. Kewer, M.D.; Marie C. S. Lindsay, M.D.

Pathologist, ———.

Director of hydrotherapy, Rebekah B. Wright, M.D.

Dentist, Lawrence H. Stone, D.M.D.

Steward, Arthur E. Gilman.

Treasurer, Adeline J. Leary.

Location, East Group, Harvard Street, Dorchester, near Blue Hill Avenue; West Group, Walk Hill Street, Dorchester; about one-half mile from railroad station; post office, Dorchester Center 24.

Visiting days, 2 to 4 P.M., daily.

Psychopathic Department (opened 1912): —

Post office, 74 Fenwood Road, Boston 17.

Trustees: William Healy, M.D., Boston, chairman; Channing Frothingham, Jr., M.D., Boston; Allen W. Rowe, Ph.D., Boston; Mrs. Esther M. Andrews, Brookline; Mr. Charles F. Rowley, Boston; Hon. Wm. J. Sullivan, South Boston; Mrs. Helen B. Hopkins, Boston.

Trustees' meeting, third Monday of each month.

Director, C. Macfie Campbell, M.D.

Chief executive officer, Harlan L. Paine, M.D.

Executive officer, Arthur E. Pattrell, M.D.

Medical officers, John F. O'Brien, M.D.; Lewis M. Walker, M.D.

Assistant executive officer, Frank J. Gale, M.D.

Assistant medical officers, John R. Frank, M.D.; Alvin Moses, M.D.; Lloyd J. Thompson, M.D.

Medical internes, Max Witte, Jr., M.D.; Catherine Brannick, M.D.

Chief of out-patient department, Douglas A. Thom, M.D.

Out-patient medical officer, Percy L. Dodge, M.D.

Chief of psychological laboratory, F. Lyman Wells, Ph.D.

Chief of neuropathological laboratory, Myrtelle M. Canavan, M.D.

Chief of therapeutic research, Harry C. Solomon, M.D.

BOSTON STATE HOSPITAL (opened 1839) — *Concluded.*

Psychopathic Department (opened 1912) — *Concluded.*

Roentgenologist, Whitman K. Coffin, M.D.

Staff meetings, every day, except Saturday.

Location, 74 Fenwood Road, near corner of Brookline Avenue.

Visiting days, every day.

GRAFTON STATE HOSPITAL, FORMERLY WORCESTER STATE ASYLUM (opened 1877): —

Trustees: Winslow P. Burhoe, Boston, chairman; Margaret A. Cashman, Newburyport, secretary; Ernest L. Anderson, Worcester; Frank B. Hall, Worcester; Francis Prescott, Grafton; Flora M. Cangiano, Hingham; Enos H. Bigelow, M.D., Framingham.

Acting superintendent, H. L. Horsman, M.D.

Assistant physicians, Mary Johnson, M.D.; H. Wilbur Smith, M.D.; Buell L. Ashmore, M.D.; James L. McAuslan, M.D.

Treasurer, Susan G. Warren.

Steward, John McRae.

Visiting surgeon, Lemuel F. Woodward, M.D.

Dentist, Burton E. Loring, D.M.D.

Visiting days, for relatives or friends, every day; for the general public, every day except Sunday.

The hospital is situated on the main line of the Boston & Albany Railroad, between Worcester and Westborough, about eight miles from Worcester, and can be reached by trolley from Worcester or from the Westborough or North Grafton stations of the Boston & Albany Railroad, or from the Lyman Street crossing of the Boston & Worcester electric cars. Correspondence relating to patients at the Grafton Hospital should be addressed to the superintendent, Grafton State Hospital, North Grafton, Mass.

MEDFIELD STATE HOSPITAL (opened 1896): —

Post office, Harding; railroad station, Medfield Junction (New York, New Haven & Hartford Railroad).

Trustees: Walter Rapp, Brockton, chairman; Christian Lantz, Salem, secretary; Mrs. Carolyn B. Odell, Belmont; Hon. J. C. J. Flamand, Cambridge; Mrs. Fannie E. Long, Newton Center; George O. Clark, M.D., Boston; Danforth W. Comins, Winchester.

Regular meeting, second Thursday of each month.

MEDFIELD STATE HOSPITAL (opened 1896) — *Concluded.*

Superintendent, Elisha H. Cohoon, M.D.

Assistant superintendent, George E. McPherson, M.D.

Assistant physicians, George A. Troxell, M.D.; Walter Burrier, M.D.; George E. Poor, M.D.; Mary E. Slattery, M.D.; Anna C. Wellington, M.D.

Pathologist, Anna H. Kandib, M.D.

Treasurer, Miss Josephine M. Baker.

Steward, Louis A. Hall.

Visiting days, every day.

Location, Asylum Road, one mile from Medfield Junction railroad station.

GARDNER STATE COLONY (opened 1902): —

Post office, Gardner; railroad station, East Gardner.

Trustees: Herbert B. Howard, M.D., Reading, chairman; Mrs. Amie H. Coes, Worcester, secretary; Owen A. Hoban, Gardner; George N. Harwood, Barre; Mrs. Alice Miller Spring, Fitchburg; Thomas H. Shea, Fitchburg; Thomas R. P. Gibb, Belmont.

Regular meeting, first Friday occurring on or after the fourth day of each month.

Superintendent, Charles E. Thompson, M.D.

Assistant superintendent, Winfred Overholser, M.D.

Senior assistant physician, Leon E. Duval, M.D.

Assistant physician, Penelope M. Flett, M.D.

Treasurer, Helen I. Harrington.

Visiting days, every day at any hour, including Sundays and holidays.

Location, East Gardner, two minutes' walk from East Gardner railroad station.

FOXBOROUGH STATE HOSPITAL (opened 1893. Devoted exclusively to the care of the insane since June 1, 1914): —

Trustees: Claire H. Gurney, Wollaston, chairman; Minna R. Mulligan, Natick, secretary; Thomas J. Scanlan, M.D., Boston; Isaac Heller, Boston; Maxime Lepine, Lowell; William H. Bannon, Foxborough; Charles H. Littlefield, Lynn.

Regular meeting, second Tuesday of each month.

Superintendent and treasurer, Albert C. Thomas, M.D.

Senior assistant physicians, Ransom H. Sartwell, M.D.; Cornelia B. J. Schorer, M.D.

Assistant physician, Russell B. Sprague, M.D.

FOXBOROUGH STATE HOSPITAL (opened 1893) — *Concluded.*

Visiting days, every day from 9 to 11 A.M. and 2 to 5 P.M.

Staff meetings daily, except Sundays and holidays, at 8.30 A.M.

Location, one mile north of Foxborough Center.

MONSON STATE HOSPITAL (opened 1898): —

Post office and railroad station, Palmer (Boston & Albany).

Trustees: George A. Moore, M.D., Palmer, chairman; Mrs.

Mary B. Townsley, Springfield; William Jameson, Chicopee Falls; George D. Storrs, Ware; J. Ubalde Paquin, M.D., New Bedford; Mrs. Mary E. Donahue, Melrose Highlands; Henry K. Hyde, Ware, secretary.

Regular meeting, first Thursday of each month.

Superintendent, Everett Flood, M.D.

Assistant superintendent, Morgan B. Hodskins, M.D.

Assistant physicians, Donald J. MacLean, M.D.; Peter P. Lawlor, M.D.

Treasurer, Sarah E. Spalding.

Steward, Charles F. Simonds.

Visiting days, every day.

Staff meetings, every day, except Sundays and holidays, at 2 P.M.

Location, one mile from railroad station.

MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED AT WALTHAM (opened 1848): —

Post office and railroad station, Waverley (Boston & Maine).

Trustees appointed by the Governor: Francis J. Barnes, M.D., Cambridge; Edward W. Emerson, M.D., Concord; Prof. Thomas N. Carver, Cambridge; Frederick H. Nash, treasurer, Auburndale; Frank H. Stewart, Newton; Miss Helen C. Taylor, Newton.

Trustees appointed by the corporation: Frank G. Wheatley, M.D., North Abington, president; Charles Francis Adams, Concord, vice-president; Charles E. Ware, Fitchburg, secretary; Roger S. Warner, Boston; Francis H. Dewey, Worcester; Paul R. Withington, M.D., Milton.

Quarterly meeting, second Thursday of October, January, April and July.

Superintendent, Walter E. Fernald, M.D.

Assistant superintendent, C. Stanley Raymond, M.D.

MASSACHUSETTS SCHOOL FOR THE FEEBLE-MINDED AT WALTHAM
(opened 1848) — *Concluded.*

Assistant physicians, Anna M. Wallace, M.D., Edith E. Woodill, M.D.; L. Maude Warren, M.D.; Mary T. Muldoon, M.D.; Esther S. B. Woodward, M.D.

Treasurer, Emily E. Guild.

Visiting days, for the parents or friends of the patients, Wednesday, Thursday and Saturday afternoons, and the first Sunday of each month; for the general public, every day, except Sunday.

Staff meetings, daily, at 9 A.M.

Location, about one mile from Waverley station (Fitchburg Division and Southern Division, Boston & Maine).

WRENTHAM STATE SCHOOL (opened 1907): —

Post office and railroad station, Wrentham.

Trustees: Albert L. Harwood, Newton, chairman; Ellerton James, Nahant, secretary; Patrick J. Lynch, Beverly; George W. Gay, M.D., Newton; Mrs. Mary Stewart Scott, Brookline; Herbert C. Parsons, Newton; Miss Sarah Lawrence, Boston.

Regular meeting, first Thursday after the first Monday of each month.

Superintendent, George L. Wallace, M.D.

Assistant superintendent, Franklin H. Perkins, M.D.

Senior assistant physicians, Mildred A. Libby, M.D.; Charles E. Roderick, M.D.; Alice M. Patterson, M.D.

Assistant physician, Genevieve Gustin, M.D.

Treasurer, Sara Clayland.

Visiting days, every day.

Location, Emerald Street, Wrentham, one mile from railroad station (New York, New Haven & Hartford Railroad).

MENTAL WARDS, STATE INFIRMARY (opened 1866): —

Post office, Tewksbury; railroad stations, Baldwin (Western Division, Boston & Maine), Tewksbury Junction and Salem Junction (Southern Division, Boston & Maine).

Trustees: Galen L. Stone, Brookline, chairman; Mrs. Nellie E. Talbot, Brookline, secretary; G. Forrest Martin, Lowell; Francis W. Anthony, M.D., Haverhill; Dennis D. Sullivan, Middleborough; Mrs. Mary E. Cogan, Stoneham; Walter F. Dearborn, M.D., Cambridge.

MENTAL WARDS, STATE INFIRMARY (opened 1866) — *Concluded.*

Regular meeting usually during last week of month.

Superintendent, John H. Nichols, M.D.

Assistant superintendent and physician, George A. Peirce, M.D.

Assistant physicians, Sherman Perry, M.D.; William T. Hanson, M.D.; Anna E. Barker, M.D.; George M. Sullivan, M.D.; Charles J. Carden, M.D.; John P. Bowler, M.D.; Holland G. Hambleton, M.D.

Bacteriologist, Edward J. O'Donoghue, M.D.

Dentist, Frederick E. Twitchell, D.M.D.

Visiting days, every day from 10 A.M. to 4 P.M.

Staff meetings, daily, at 8 A.M.

Location, about one-half mile from railroad and from electric cars. Coach from infirmary meets most of the trains.

BRIDGEWATER STATE HOSPITAL (opened 1886, 1895): —

Post office, State Farm; railroad station, Titicut (New York, New Haven & Hartford).

Supervision of Department of Correction, Sanford Bates, Commissioner.

Medical director, Frank H. Carlisle, M.D.

Assistant physicians, Lonnie O. Farrar, M.D.; Wilmarth Y. Seymour, M.D.; George A. Gaunt, M.D.

Visiting days, for relatives or friends of patients, every day; for the general public, every day, with the exception of Sundays and holidays.

Staff meetings, daily, at 10 A.M.

Location, one-quarter mile from railroad station.

THE HOSPITAL COTTAGES FOR CHILDREN, BALDWINVILLE (opened 1882): —

President, Herbert S. Morley, Baldwinville; clerk, Robert N. Wallis, Fitchburg.

Trustees appointed by the Governor: H. S. Morley, Baldwinville; George B. Dewson, Milton; Arthur H. Lowe, Fitchburg; J. K. Dexter, Springfield; Miss Edith H. Sears, Boston.

THE HOSPITAL COTTAGES FOR CHILDREN, BALDWINVILLE (opened 1882) — *Concluded*.

Trustees appointed by the corporation: Gilman Waite, Baldwinville; Mrs. Edward L. Greene, Fitchburg; Robert N. Wallis, Fitchburg; Rev. J. S. Lemon, Gardner; Mrs. Winslow S. Lincoln, Worcester; Frederick P. Stone, Otter River; Frederic A. Turner, Jr., Boston; Mrs. Arthur R. Smith, Leicester; Dr. S. E. Greenwood, Templeton; G. W. Mackintire, Worcester; Dr. H. W. Page, Worcester; Dr. John G. Henry, Winchendon; Mrs. J. M. Lasell, Whitinsville; Mrs. Philip Weston, Pittsfield; Mrs. Paul M. Hubbard, Brookline; George L. Clark, Worcester.

Quarterly meeting, third Wednesday of January, April, July and October.

Superintendent, Harold C. Arey, M.D.

Assistant physician, Caroline A. Osborne, M.D.

Treasurer, U. Waldo Cutler.

Visiting days, every day except Sundays.

Location, Hospital Street, one mile from railroad station (Ware River Branch, Boston & Albany, and Boston & Maine).

PRIVATE.

FOR INSANE EPILEPTICS AND PERSONS ADDICTED TO THE INTEMPERATE USE OF NARCOTICS OR STIMULANTS.

MCLEAN HOSPITAL (opened 1818): —

Department of Massachusetts General Hospital Corporation.

Post office and railroad station, Waverley (Boston & Maine).

President, Henry P. Walcott, M.D., Boston.

Treasurer, Charles H. W. Foster, Needham.

Secretary, Francis C. Gray, Boston.

Trustees appointed by the Governor: Thomas B. Gannett, Boston; Joseph H. O'Neil, Boston; Mrs. Nathaniel Thayer, Boston; Sewall H. Fessenden, Boston.

Trustees appointed by the corporation: George Wigglesworth, Boston; William Endicott, Boston; George T. Tuttle, M.D., Boston; John R. Macomber, Boston; Robert Homans, Boston; C. H. W. Foster, Needham; Nathaniel T. Kidder, Boston; John Lowell, Boston.

Regular meeting, usually at the office of the treasurer, 50 State Street, Boston, on Fridays at intervals of two weeks, beginning sixteen days after the first Wednesday in February.

Superintendent, Frederic H. Packard, M.D.

First assistant physician, Theodore A. Hoch, M.D.

Second assistant physician, Freeman A. Tower, M.D.

Clinical assistant and pathologist, James S. Plant, M.D.

Assistant physician, —.

Chemist, Otto Folin, Ph.D.

Assistant chemist, —.

Assistant in pathological psychology, F. Lyman Wells, Ph.D.

Visiting days, week days.

Staff meetings, regularly, Tuesdays and Thursdays at 8.30 A.M.; irregularly, on other days, at the same hour.

Location, Pleasant Street, one-third mile from railroad station.

BOURNEWOOD, George H. Torney, M.D., South Street, Brookline. Railroad station, Bellevue (Dedham Division, New York, New Haven & Hartford). Fifteen minutes' walk. Carriage by previous arrangement.

CHANNING SANITARIUM, Walter Channing, M.D., 701 Chestnut Hill Avenue, Brookline. Railroad station, Reservoir (Boston & Albany). Carriage. Or Chestnut Hill street car to Chestnut Hill Avenue; also at Wellesley Avenue, Wellesley.

HERBERT HALL HOSPITAL, Walter C. Haviland, M.D., 223 Salisbury Street, Worcester. Salisbury Street electric car from City Hall Square.

WISWALL SANITARIUM, Harry O. Spalding, M.D., Washington Street, Wellesley, also at Cartwright Road, Needham.

SHERWOOD, J. F. Edgerly, M.D., Lincoln. About two miles from railroad station.

HIGHLAND HALL, Samuel L. Eaton, M.D., 340 Lake Avenue, Newton Highlands.

DR. REEVES' NERVINE, Harriet E. Reeves, M.D., 283 Vinton Street, Melrose Highlands.

ARLINGTON HEALTH RESORT, Arthur H. Ring, M.D., Arlington Heights. Carriage. Also at Billerica.

PRIVATE HOSPITAL FOR MENTAL DISEASES, Edward Mellus, M.D., 419 Waverley Avenue, Newton. Carriage. Or Commonwealth Avenue car to Grant Avenue.

GLENSIDE, Mabel D. Ordway, M.D., 6 Parley Vale, Jamaica Plain.

KNOLLWOOD, Earle E. Bessey, M.D., corner Beacon Street and Waban Avenue, Waban (Boston & Albany).

BELLEVUE SANITARIUM, Mary W. L. Johnson, M.D., 158 Walcott Road, Brookline.

FOR PERSONS ADDICTED TO THE INTEMPERATE USE OF NARCOTICS
OR STIMULANTS.

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Street, Roxbury.

WASHINGTONIAN HOME, Hugh Barr Gray, M.D., 41 Waltham
Street, Boston.

FOR FEEBLE-MINDED.

ELM HILL PRIVATE SCHOOL AND HOME FOR THE FEEBLE-MINDED,
George A. Brown, M.D., Barre (Central Massachusetts
Branch, Boston & Maine).

TERRACE HOME SCHOOL, Mrs. Frances Herrick Doyle, Manager,
Amherst (Central Massachusetts Branch, Boston &
Maine). Carriage.

PRIVATE SCHOOL, Miss Elizabeth C. Moulton, 80 Hammond
Street, Chestnut Hill, Newton.

STANDISH MANOR, Miss Alice M. Belden, Halifax.

HILLBROW SCHOOL, Miss Alice Shovelton, 16 Summit Street,
Newton.

PRIVATE SCHOOL, Miss Caroline J. Schofield, Edgartown.

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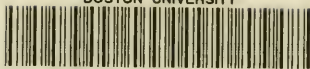
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